


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER GMBU G-21-9-16				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT MONUMENT BUTTE				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)				
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY						7. OPERATOR PHONE 435 646-4825				
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052						9. OPERATOR E-MAIL mcrozier@newfield.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-64379			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE	2062 FNL 557 FWL		SWNW	21	9.0 S	16.0 E	S			
Top of Uppermost Producing Zone	1656 FNL 1057 FWL		SWNW	21	9.0 S	16.0 E	S			
At Total Depth	1276 FNL 1556 FWL		NENW	21	9.0 S	16.0 E	S			
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1276		23. NUMBER OF ACRES IN DRILLING UNIT 20					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 855		26. PROPOSED DEPTH MD: 6040 TVD: 5880					
27. ELEVATION - GROUND LEVEL 6040			28. BOND NUMBER WYB000493		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478					
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
Prod	7.875	5.5	0 - 6040	15.5	J-55 LT&C	8.3	Premium Lite High Strength	279	3.26	11.0
							50/50 Poz	363	1.24	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Mandie Crozier				TITLE Regulatory Tech			PHONE 435 646-4825			
SIGNATURE				DATE 07/16/2012			EMAIL mcrozier@newfield.com			
API NUMBER ASSIGNED 43013515690000				APPROVAL  Permit Manager						

NEWFIELD PRODUCTION COMPANY
GMBU G-21-9-16
AT SURFACE: SW/NW SECTION 21, T9S R16E
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 1575'
Green River	1575'
Wasatch	6160'
Proposed TD	6040'

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation (Oil) 1575' – 6160'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO ₃) (mg/l)
Dissolved Bicarbonate (NaHCO ₃) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO ₄) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM**

a. Casing Design: GMBU G-21-9-16

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,040'	15.5	J-55	LTC	4,810 2.50	4,040 2.10	217,000 2.32

Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg
 Pore pressure at surface casing shoe = 8.33 ppg
 Pore pressure at prod casing shoe = 8.33 ppg
 Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. Cementing Design: GMBU G-21-9-16

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft ³ /sk)
			ft ³			
Surface casing	300'	Class G w/ 2% CaCl	138 161	30%	15.8	1.17
Prod casing Lead	4,040'	Prem Lite II w/ 10% gel + 3% KCl	279 910	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

*Actual volume pumped will be 15% over the caliper log

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to ± 300 feet will be drilled with an air/mist system. The air rig is equipped with a 6 1/2" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ± 300 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

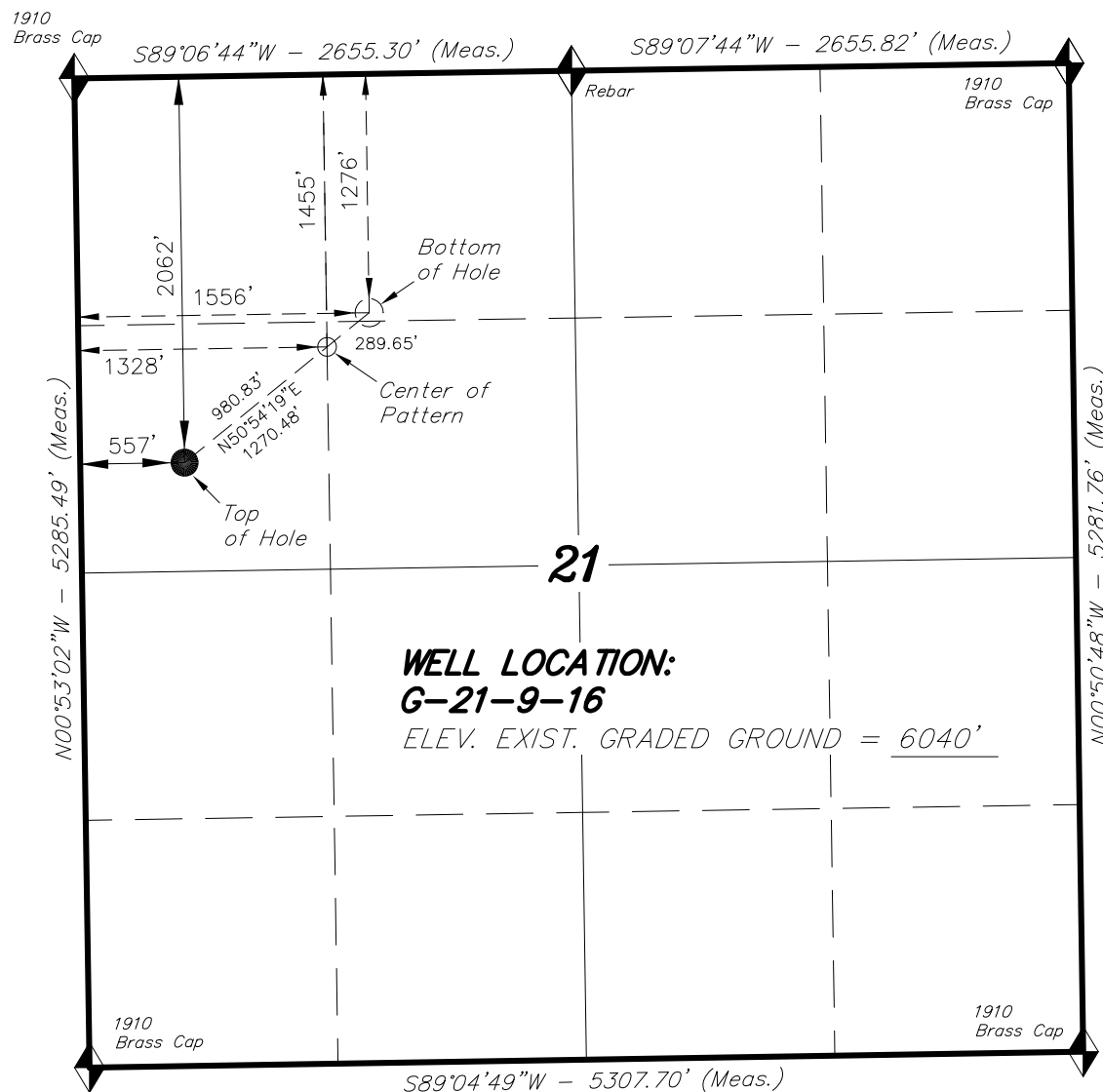
9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated

bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the fourth quarter of 2012, and take approximately seven (7) days from spud to rig release.

T9S, R16E, S.L.B.&M.**NEWFIELD EXPLORATION COMPANY**

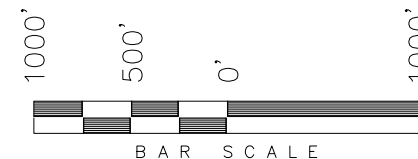
◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

G-21-9-16
(Surface Location) NAD 83
LATITUDE = 40° 01' 04.65"
LONGITUDE = 110° 07' 54.39"

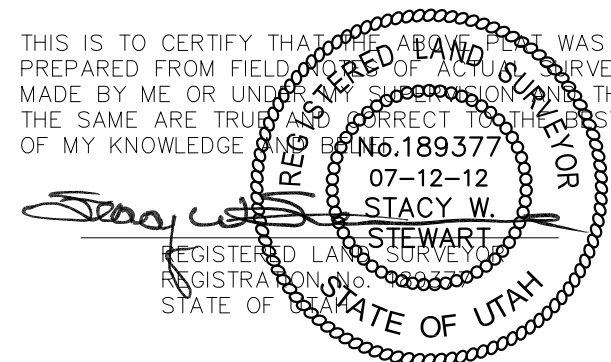
WELL LOCATION, G-21-9-16, LOCATED AS SHOWN IN THE SW 1/4 NW 1/4 OF SECTION 21, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, G-21-9-16, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 21, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

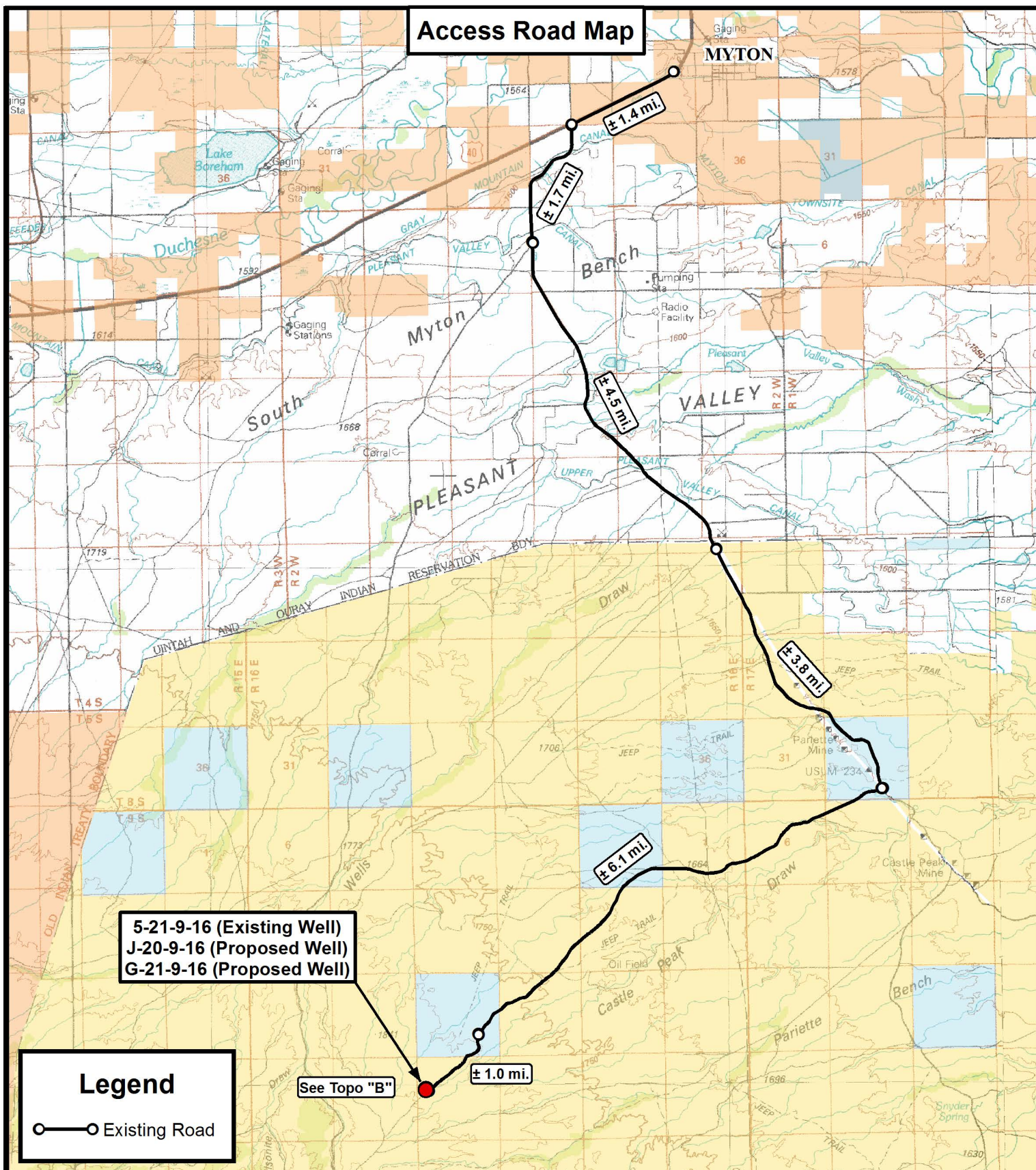
**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

DATE SURVEYED: 02-23-12	SURVEYED BY: M.C.	VERSION:
DATE DRAWN: 04-24-12	DRAWN BY: M.W.	V3
REVISED: 07-12-12 M.W.	SCALE: 1" = 1000'	

RECEIVED: July 16, 2012

Access Road Map



180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518

NEWFIELD EXPLORATION COMPANY

5-21-9-16 (Existing Well)
J-20-9-16 (Proposed Well)
G-21-9-16 (Proposed Well)
SEC. 21, T9S, R16E, S.L.B.&M. Duchesne County, UT.

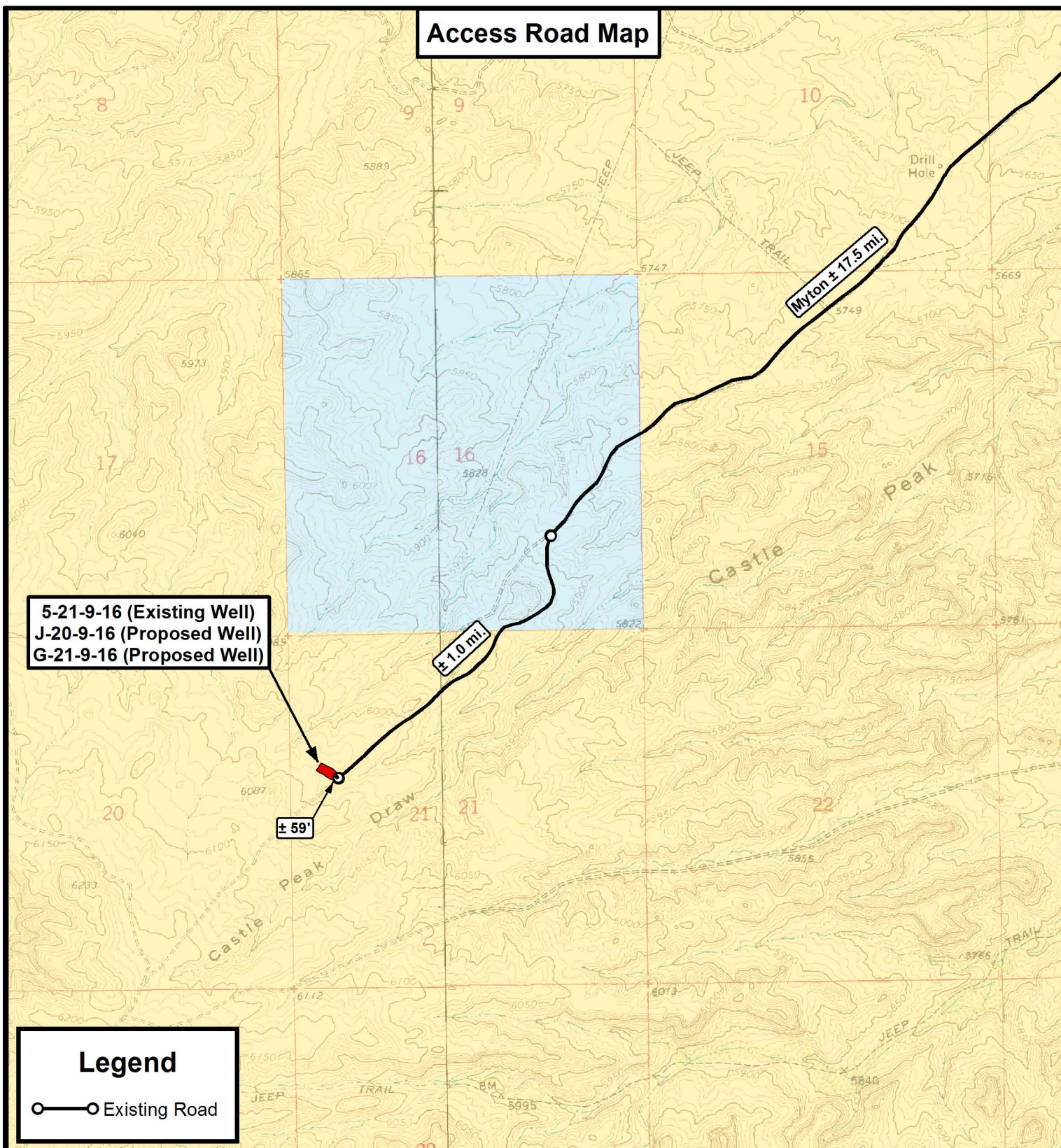
DRAWN BY:	A.P.C.	REVISED:	07-12-12 D.C.R.	VERSION:
DATE:	04-24-2012			V3
SCALE:	1:100,000			

TOPOGRAPHIC MAP

SHEET

A

Access Road Map



THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

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SEC. 21, T9S, R16E, S.L.B.&M. Duchesne County, UT.

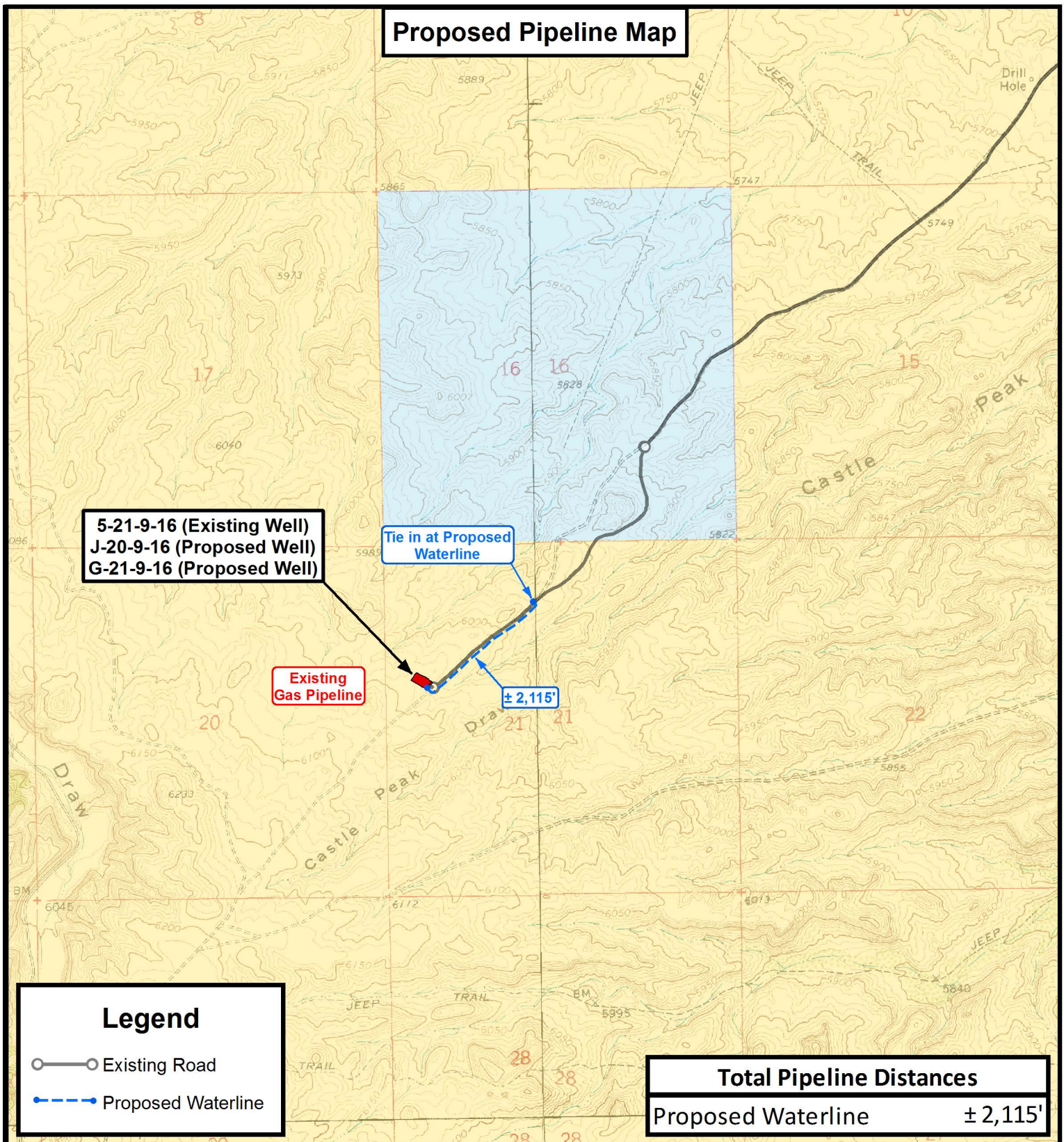
DRAWN BY:	A.P.C.	REVISED:	07-12-12 D.C.R.	VERSION:
DATE:	03-12-2012			V3
SCALE:	1" = 2,000'			

TOPOGRAPHIC MAP

SHEET

B

Proposed Pipeline Map



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NEWFIELD EXPLORATION COMPANY

5-21-9-16 (Existing Well)
 J-20-9-16 (Proposed Well)
 G-21-9-16 (Proposed Well)
 SEC. 21, T9S, R16E, S.L.B.&M. Duchesne County, UT.

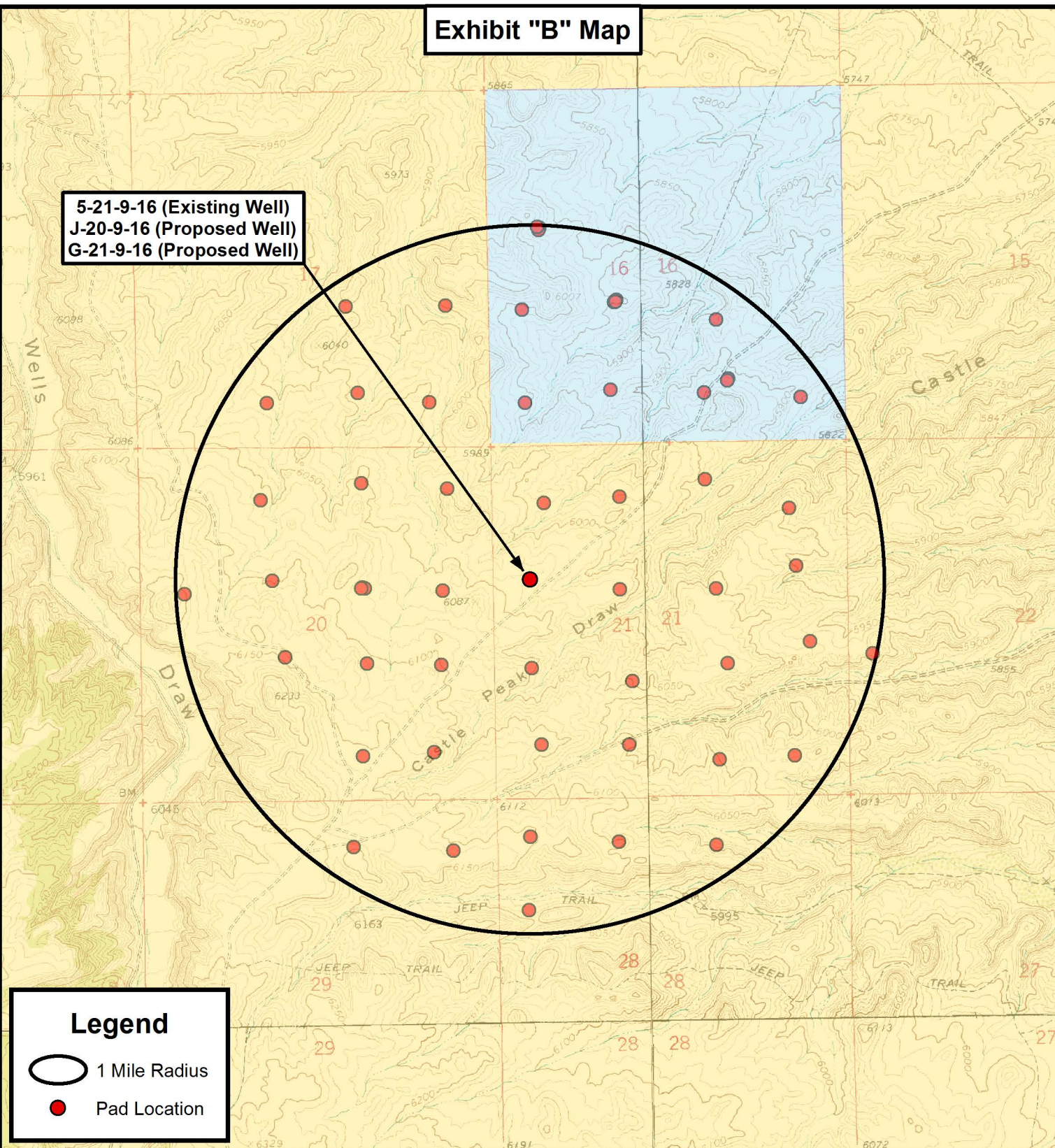
DRAWN BY:	A.P.C.	REVISED:	07-12-12 D.C.R.	VERSION:
DATE:	03-12-2012			V3
SCALE:	1" = 2,000'			

TOPOGRAPHIC MAP

SHEET
C

Exhibit "B" Map

5-21-9-16 (Existing Well)
 J-20-9-16 (Proposed Well)
 G-21-9-16 (Proposed Well)

**Legend**

- 1 Mile Radius
 ● Pad Location

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5-21-9-16 (Existing Well)
 J-20-9-16 (Proposed Well)
 G-21-9-16 (Proposed Well)
 SEC. 21, T9S, R16E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	07-12-12 D.C.R.	VERSION:
DATE:	04-24-2012			V3
SCALE:	1" = 2,000'			

TOPOGRAPHIC MAP

SHEET

D



NEWFIELD EXPLORATION

**USGS Myton SW (UT)
SECTION 21 T9S, R16E
G-21-9-16**

Wellbore #1

Plan: Design #1

Standard Planning Report

09 April, 2012





Payzone Directional Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well G-21-9-16
Company:	NEWFIELD EXPLORATION	TVD Reference:	G-21-9-16 @ 6052.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	MD Reference:	G-21-9-16 @ 6052.0ft (Original Well Elev)
Site:	SECTION 21 T9S, R16E	North Reference:	True
Well:	G-21-9-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site						SECTION 21 T9S, R16E											
Site Position:			Northing:			7,178,195.78 ft			Latitude:			40° 1' 4.650 N					
From:			Lat/Long			Easting:			2,023,590.50 ft			Longitude:			110° 7' 54.390 W		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.88 °		

Well	G-21-9-16, SHL LAT: 40°01'04.65" LONG: -110°07'54.39"					
Well Position	+N/-S	0.0 ft	Northing:	7,178,195.77 ft	Latitude:	40° 1' 4.650 N
	+E/-W	0.0 ft	Easting:	2,023,590.50 ft	Longitude:	110° 7' 54.390 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	6,052.0 ft	Ground Level:	6,040.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/9/2012	11.23	65.74	52,161

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	4,790.0	0.0	0.0	50.91

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,592.1	14.88	50.91	1,581.0	80.8	99.4	1.50	1.50	0.00	50.91	
4,912.5	14.88	50.91	4,790.0	618.5	761.2	0.00	0.00	0.00	0.00	G-21-9-16 TGT
6,040.3	14.88	50.91	5,880.0	801.2	986.0	0.00	0.00	0.00	0.00	



Payzone Directional

Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well G-21-9-16
Company:	NEWFIELD EXPLORATION	TVD Reference:	G-21-9-16 @ 6052.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	MD Reference:	G-21-9-16 @ 6052.0ft (Original Well Elev)
Site:	SECTION 21 T9S, R16E	North Reference:	True
Well:	G-21-9-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	50.91	700.0	0.8	1.0	1.3	1.50	1.50	0.00
800.0	3.00	50.91	799.9	3.3	4.1	5.2	1.50	1.50	0.00
900.0	4.50	50.91	899.7	7.4	9.1	11.8	1.50	1.50	0.00
1,000.0	6.00	50.91	999.3	13.2	16.2	20.9	1.50	1.50	0.00
1,100.0	7.50	50.91	1,098.6	20.6	25.4	32.7	1.50	1.50	0.00
1,200.0	9.00	50.91	1,197.5	29.7	36.5	47.0	1.50	1.50	0.00
1,300.0	10.50	50.91	1,296.1	40.3	49.6	64.0	1.50	1.50	0.00
1,400.0	12.00	50.91	1,394.2	52.6	64.8	83.5	1.50	1.50	0.00
1,500.0	13.50	50.91	1,491.7	66.6	81.9	105.5	1.50	1.50	0.00
1,592.1	14.88	50.91	1,581.0	80.8	99.4	128.1	1.50	1.50	0.00
1,600.0	14.88	50.91	1,588.6	82.1	101.0	130.1	0.00	0.00	0.00
1,700.0	14.88	50.91	1,685.3	98.3	120.9	155.8	0.00	0.00	0.00
1,800.0	14.88	50.91	1,781.9	114.5	140.9	181.5	0.00	0.00	0.00
1,900.0	14.88	50.91	1,878.6	130.7	160.8	207.2	0.00	0.00	0.00
2,000.0	14.88	50.91	1,975.2	146.8	180.7	232.9	0.00	0.00	0.00
2,100.0	14.88	50.91	2,071.8	163.0	200.7	258.6	0.00	0.00	0.00
2,200.0	14.88	50.91	2,168.5	179.2	220.6	284.2	0.00	0.00	0.00
2,300.0	14.88	50.91	2,265.1	195.4	240.5	309.9	0.00	0.00	0.00
2,400.0	14.88	50.91	2,361.8	211.6	260.5	335.6	0.00	0.00	0.00
2,500.0	14.88	50.91	2,458.4	227.8	280.4	361.3	0.00	0.00	0.00
2,600.0	14.88	50.91	2,555.1	244.0	300.3	387.0	0.00	0.00	0.00
2,700.0	14.88	50.91	2,651.7	260.2	320.3	412.6	0.00	0.00	0.00
2,800.0	14.88	50.91	2,748.4	276.4	340.2	438.3	0.00	0.00	0.00
2,900.0	14.88	50.91	2,845.0	292.6	360.1	464.0	0.00	0.00	0.00
3,000.0	14.88	50.91	2,941.7	308.8	380.0	489.7	0.00	0.00	0.00
3,100.0	14.88	50.91	3,038.3	325.0	400.0	515.4	0.00	0.00	0.00
3,200.0	14.88	50.91	3,135.0	341.2	419.9	541.0	0.00	0.00	0.00
3,300.0	14.88	50.91	3,231.6	357.4	439.8	566.7	0.00	0.00	0.00
3,400.0	14.88	50.91	3,328.2	373.6	459.8	592.4	0.00	0.00	0.00
3,500.0	14.88	50.91	3,424.9	389.8	479.7	618.1	0.00	0.00	0.00
3,600.0	14.88	50.91	3,521.5	406.0	499.6	643.8	0.00	0.00	0.00
3,700.0	14.88	50.91	3,618.2	422.2	519.6	669.5	0.00	0.00	0.00
3,800.0	14.88	50.91	3,714.8	438.4	539.5	695.1	0.00	0.00	0.00
3,900.0	14.88	50.91	3,811.5	454.5	559.4	720.8	0.00	0.00	0.00
4,000.0	14.88	50.91	3,908.1	470.7	579.4	746.5	0.00	0.00	0.00
4,100.0	14.88	50.91	4,004.8	486.9	599.3	772.2	0.00	0.00	0.00
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4,300.0	14.88	50.91	4,198.1	519.3	639.2	823.5	0.00	0.00	0.00
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4,912.5	14.88	50.91	4,790.0	618.5	761.2	980.8	0.00	0.00	0.00
5,000.0	14.88	50.91	4,874.6	632.7	778.7	1,003.3	0.00	0.00	0.00
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Payzone Directional

Planning Report



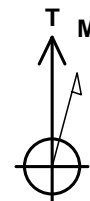
Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well G-21-9-16
Company:	NEWFIELD EXPLORATION	TVD Reference:	G-21-9-16 @ 6052.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	MD Reference:	G-21-9-16 @ 6052.0ft (Original Well Elev)
Site:	SECTION 21 T9S, R16E	North Reference:	True
Well:	G-21-9-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.0	14.88	50.91	5,067.9	665.1	818.5	1,054.7	0.00	0.00	0.00
5,300.0	14.88	50.91	5,164.5	681.3	838.5	1,080.4	0.00	0.00	0.00
5,400.0	14.88	50.91	5,261.2	697.5	858.4	1,106.0	0.00	0.00	0.00
5,500.0	14.88	50.91	5,357.8	713.7	878.3	1,131.7	0.00	0.00	0.00
5,600.0	14.88	50.91	5,454.5	729.9	898.3	1,157.4	0.00	0.00	0.00
5,700.0	14.88	50.91	5,551.1	746.1	918.2	1,183.1	0.00	0.00	0.00
5,800.0	14.88	50.91	5,647.8	762.2	938.1	1,208.8	0.00	0.00	0.00
5,900.0	14.88	50.91	5,744.4	778.4	958.1	1,234.4	0.00	0.00	0.00
6,000.0	14.88	50.91	5,841.0	794.6	978.0	1,260.1	0.00	0.00	0.00
6,040.3	14.88	50.91	5,880.0	801.2	986.0	1,270.5	0.00	0.00	0.00

API Well Number: 43013515690000



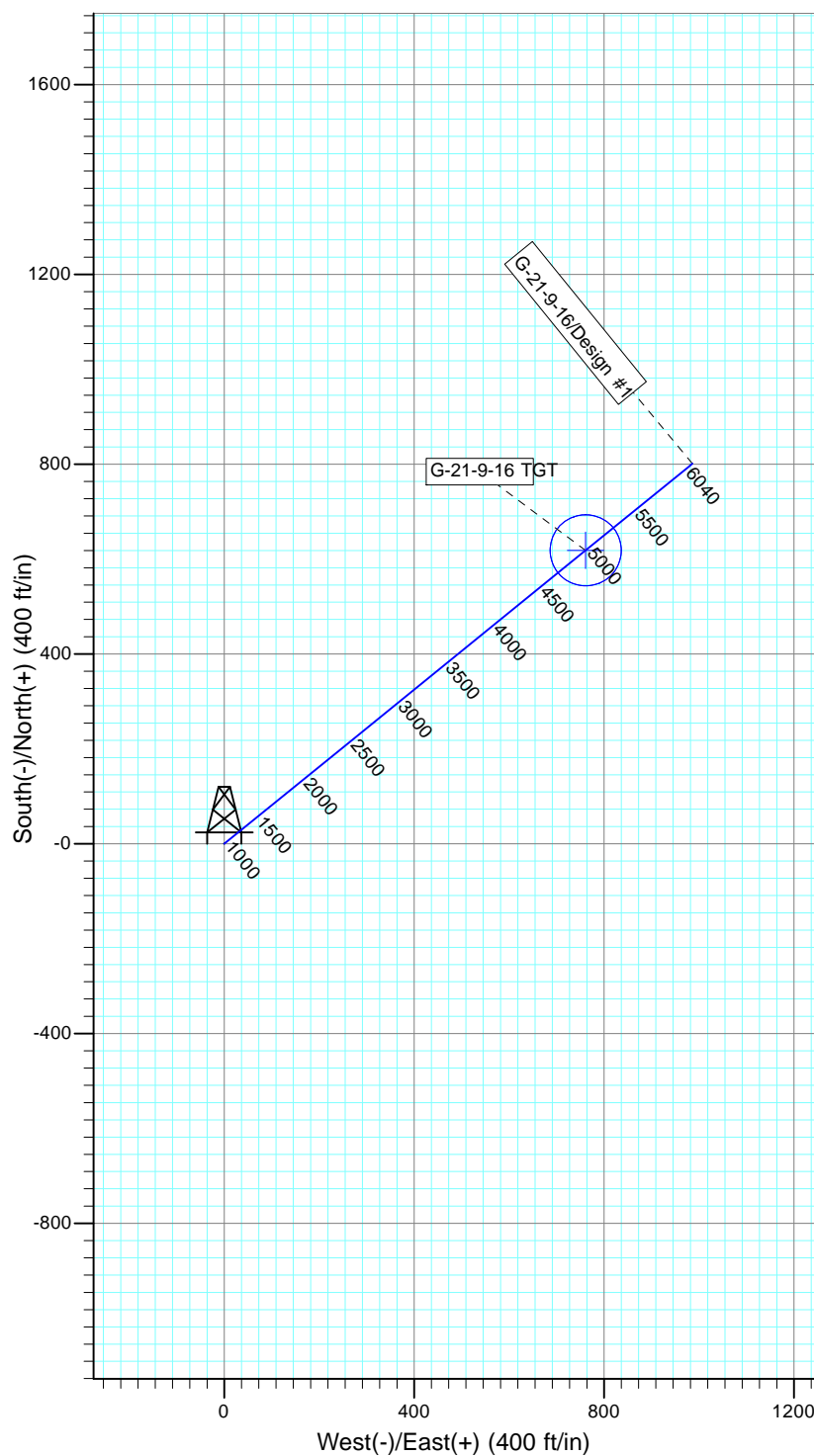
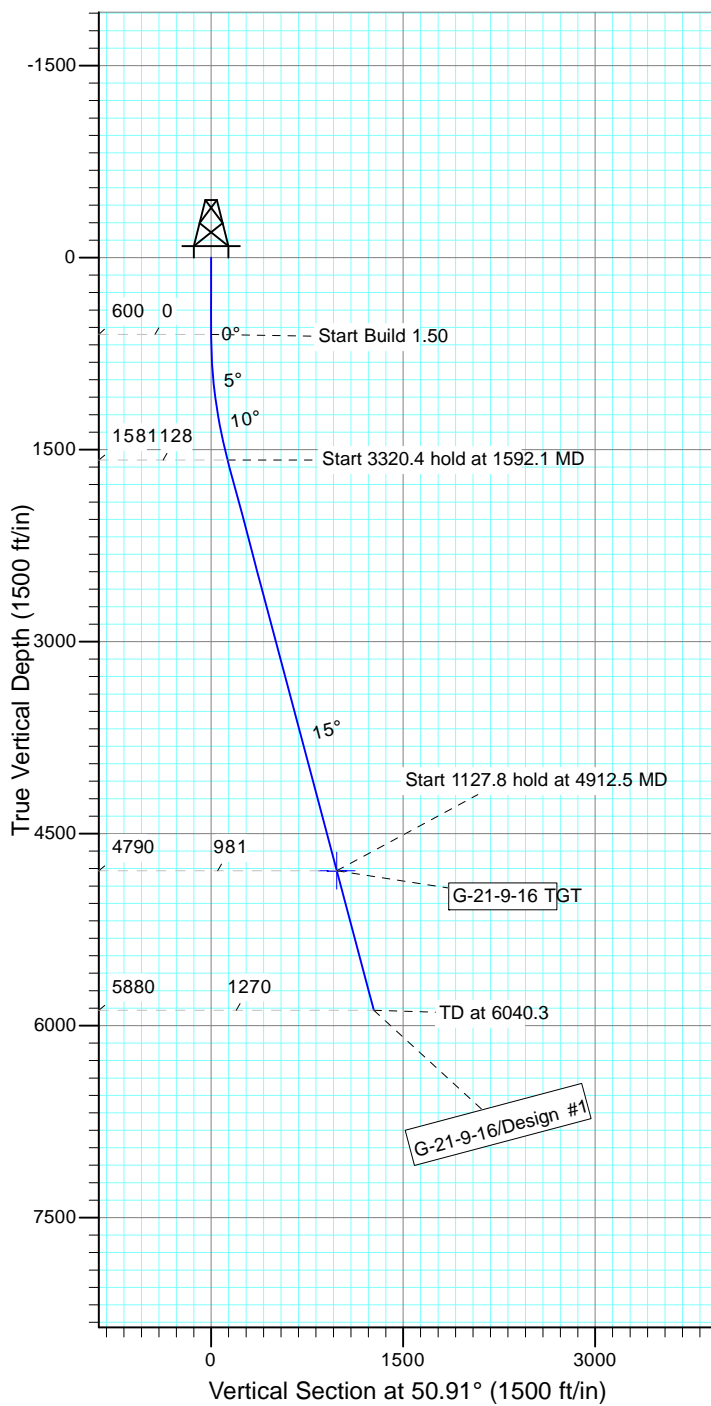
Project: USGS Myton SW (UT)
 Site: SECTION 21 T9S, R16E
 Well: G-21-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.23°

Magnetic Field
 Strength: 52160.8snT
 Dip Angle: 65.74°
 Date: 4/9/2012
 Model: IGRF2010

KOP @ 600'
 DOGLEG RATE 1.5 DEG/100
 TARGET RADIUS IS 75'



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
G-21-9-16 TGT	4790.0	618.5	761.2	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1592.1	14.88	50.91	1581.0	80.8	99.4	1.50	50.91	128.1	
4	4912.5	14.88	50.91	4790.0	618.5	761.2	0.00	0.00	980.8	G-21-9-16 TGT
5	6040.3	14.88	50.91	5880.0	801.2	986.0	0.00	0.00	1270.5	



**NEWFIELD PRODUCTION COMPANY
GMBU G-21-9-16
AT SURFACE: SW/NW SECTION 21, T9S R16E
DUCHESNE COUNTY, UTAH**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU G-21-9-16 located in the SW 1/4 NW 1/4 Section 21, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 – 1.4 miles \pm to the junction of this highway and UT State Hwy 53; proceed in a southeasterly direction – 10.0 miles \pm to it's junction with an existing road to the southwest; proceed in a southwesterly direction – 7.1 miles \pm to it's junction with the beginning of the access road to the existing 5-21-9-16 well location.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal. Any necessary fill material for repair will be purchase and hauled from private sources.

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing 5-21-9-16 well pad. See attached **Topographic Map "B"**.

There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District
Water Right : 43-10136

Maurice Harvey Pond
Water Right: 47-1358

Neil Moon Pond
Water Right: 43-11787

Newfield Collector Well
Water Right: 47-1817 (A30414DVA, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

8. **ANCILLARY FACILITIES**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Existing fences to be crossed by the access road will be braced and tied off before cutting so as to prevent slacking in the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM specifications.

10. **PLANS FOR RESTORATION OF SURFACE:**

- a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

- b) Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP** – Bureau of Land Management.

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. State of Utah Antiquities Project Permit #U-12-MQ-0709b 7/25/05, prepared by Montgomery Archaeological Consultants. Paleontological Resource Survey prepared by, Wade E. Miller, 11/10/05. See attached report cover pages, Exhibit "D".

Newfield Production Company requests 2,115' of buried water line be granted. **Refer to Topographic Map "C"**. The proposed pipelines will be constructed using the following procedures as outlined in the Greater Monument Butte Green River Development SOP.

In the event that the proposed well is converted to a water injection well, a Sundry Notice 3160-5 form will be applied for through the Bureau of Land Management field office.

Water Disposal

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

Additional Surface Stipulations

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

Details of the On-Site Inspection

The proposed GMBU G-21-9-16 was on-sited on 5/18/12. The following were present; Corie Miller (Newfield Production), Janna Simonsen (Bureau of Land Management), and Dave Gordon (Bureau of Land Management).

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the GMBU G-21-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU G-21-9-16, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**
Representative

Name: Corie Miller
Address: Newfield Production Company
Route 3, Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

Certification

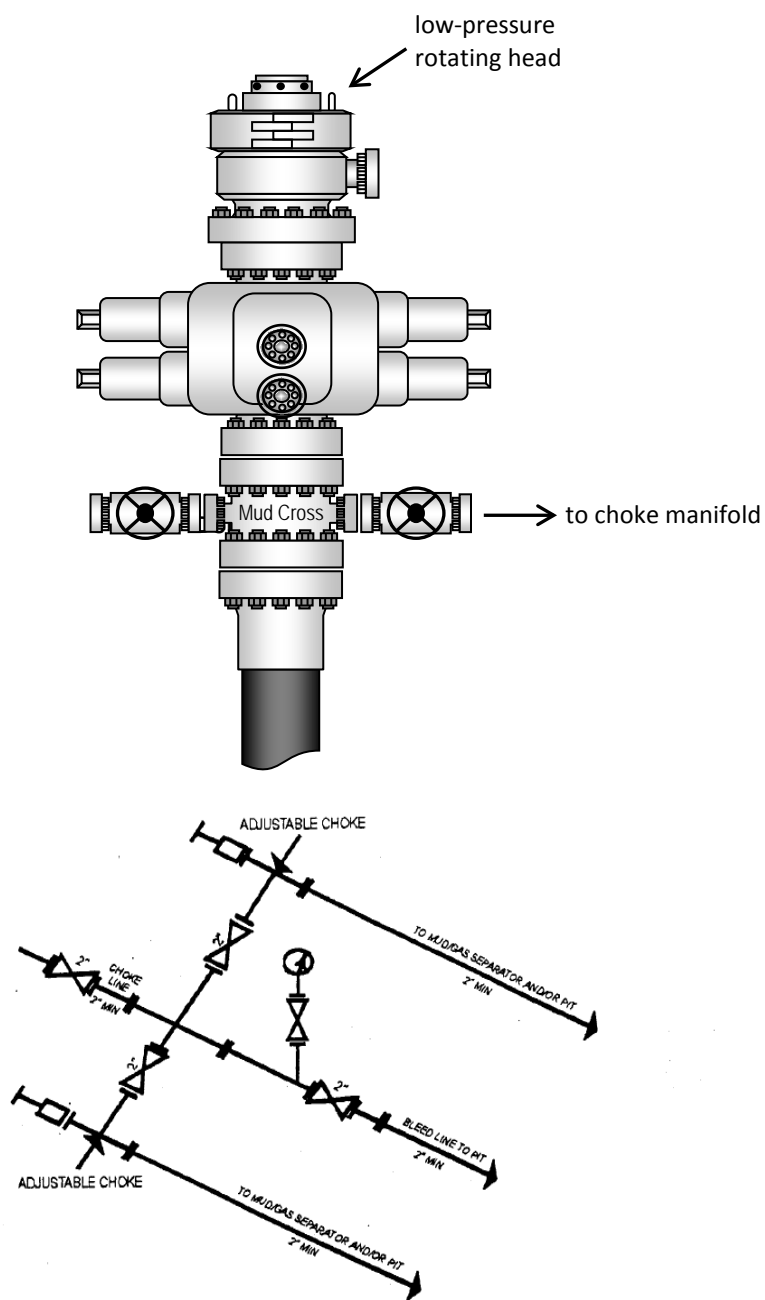
Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #G-21-9-16, Section 21, Township 9S, Range 16E: Lease UTU-64379 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

7/12/12
Date

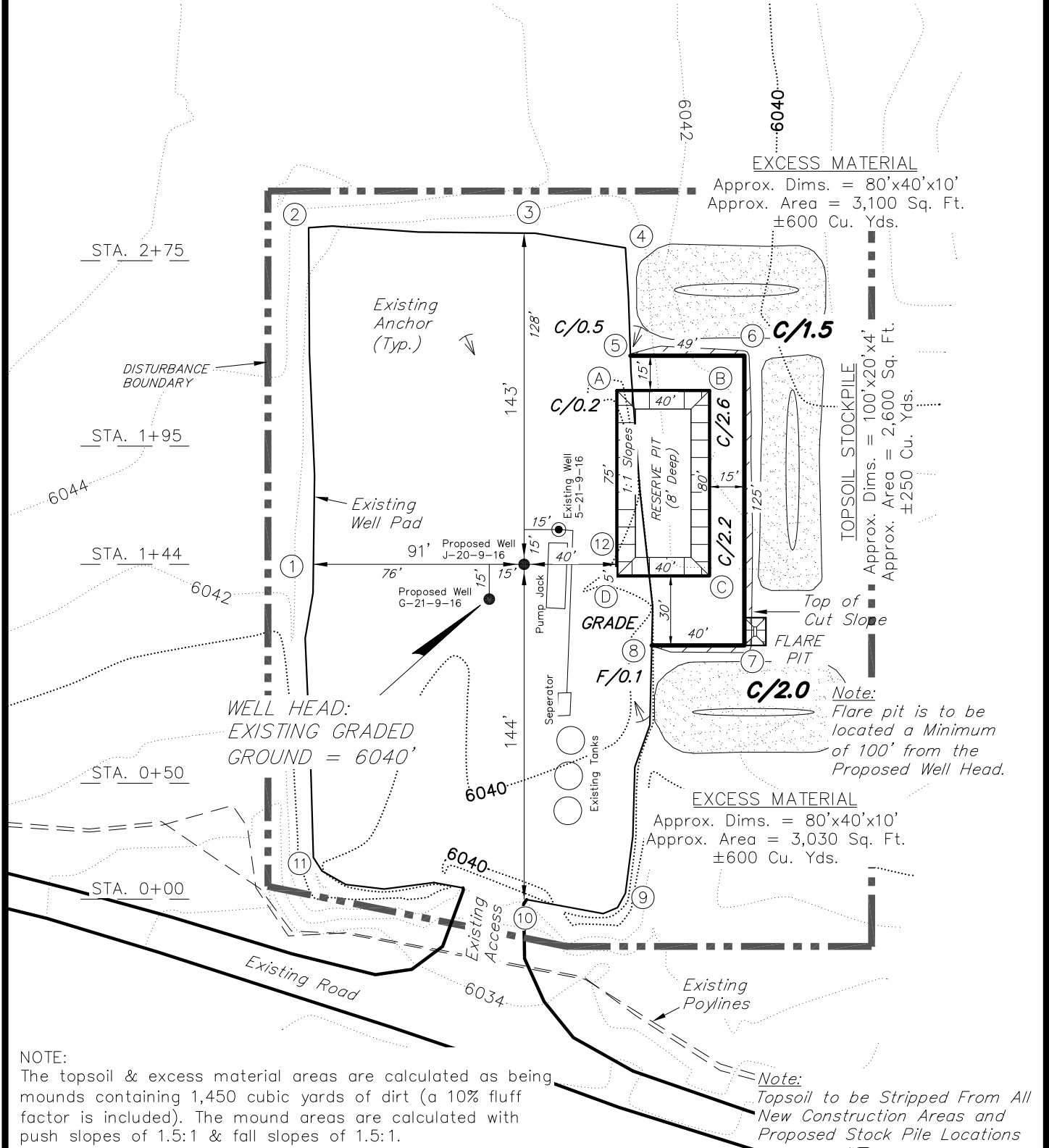
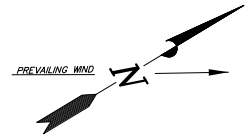
Mandie Crozier
Regulatory Analyst
Newfield Production Company

Typical 2M BOP stack configuration



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

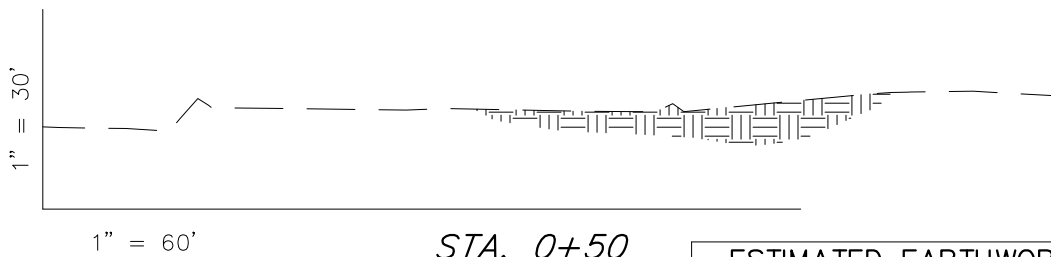
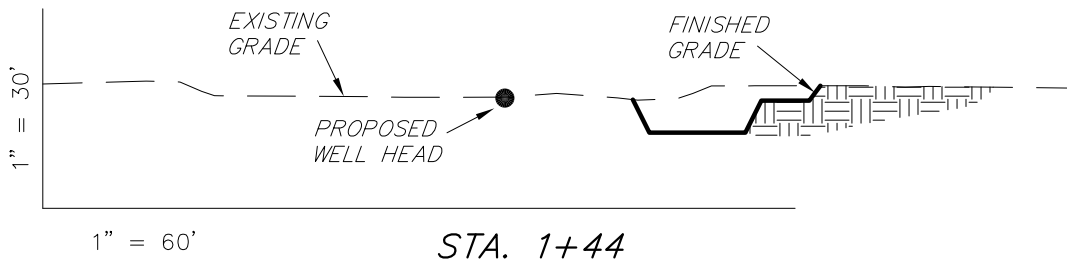
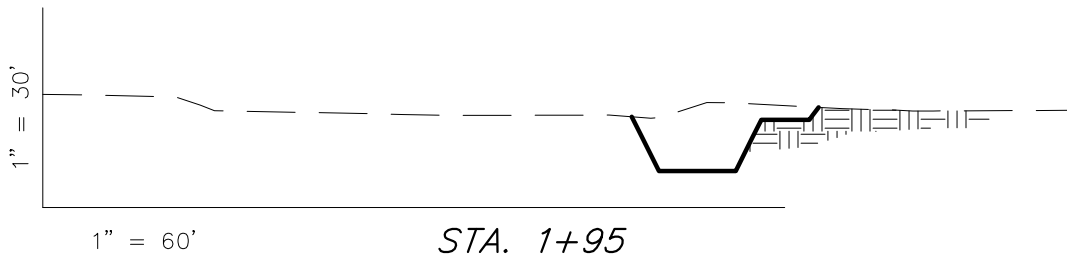
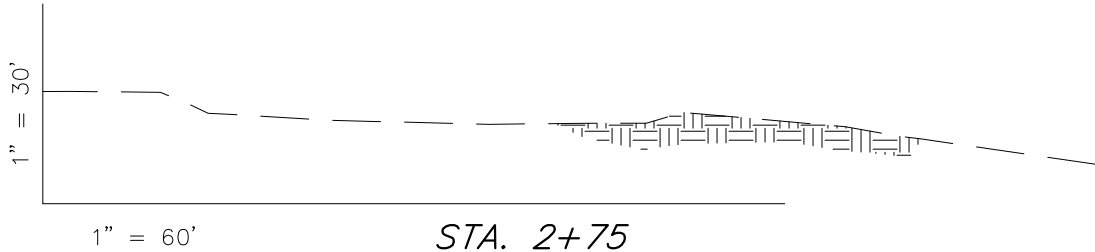
RECEIVED: July 16, 2012

NEWFIELD EXPLORATION COMPANY**LOCATION LAYOUT****5-21-9-16 (Existing Well)****J-20-9-16 (Proposed Well)****G-21-9-16 (Proposed Well)****Pad Location: SWNW Section 21, T9S, R16E, S.L.B.&M.**

SURVEYED BY: M.C.	DATE SURVEYED: 02-23-12	VERSION:
DRAWN BY: M.W.	DATE DRAWN: 03-10-12	V3
SCALE: 1" = 60'	REVISED: M.W. - 07-12-12	

Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
(435) 781-2501

RECEIVED: July 16, 2012

NEWFIELD EXPLORATION COMPANY***CROSS SECTIONS******5-21-9-16 (Existing Well)******J-20-9-16 (Proposed Well)******G-21-9-16 (Proposed Well)******Pad Location: SWNW Section 21, T9S, R16E, S.L.B.&M.***

NOTE:
UNLESS OTHERWISE
NOTED ALL CUT/FILL
SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	400	0	Topsoil is not included in Pad Cut	400
PIT	690	0		690
TOTALS	1,090	0	230	1,090

SURVEYED BY: M.C. DATE SURVEYED: 02-23-12
 DRAWN BY: M.W. DATE DRAWN: 03-10-12
 SCALE: 1" = 60' REVISED: M.W. - 07-12-12




































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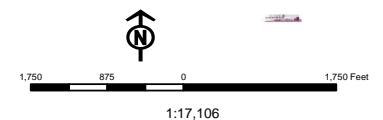
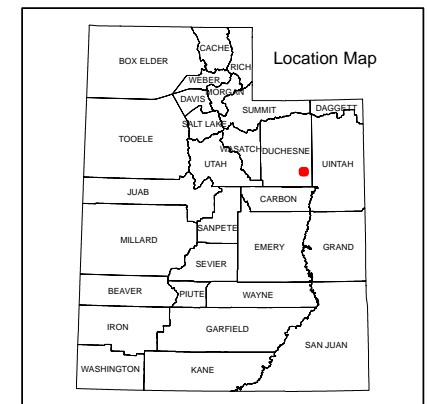
V3

Tri State (435) 781-2501
Land Surveying, Inc.
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

RECEIVED: July 16, 2012

RECEIVED: July 16, 2012

Units	Wells Query
STATUS	Status
 ACTIVE	 APD - Approved Permit
 EXPLORATORY	 DRL - Spudded (Drilling Commenced)
 GAS STORAGE	 GIW - Gas Injection
 NF PP OIL	 GS - Gas Storage
 NF SECONDARY	 LOC - New Location
 PI OIL	 OPS - Operation Suspended
 PP GAS	 PA - Plugged Abandoned
 PP GEOTHERMAL	 PGW - Producing Gas Well
 PP OIL	 POW - Producing Oil Well
 SECONDARY	 SGW - Shut-in Gas Well
 TERMINATED	 SOW - Shut-in Oil Well
Fields	 TA - Temp. Abandoned
STATUS	 TW - Test Well
 Unknown	 WDW - Water Disposal
 ABANDONED	 WWI - Water Injection Well
 ACTIVE	 WSW - Water Supply Well
 COMBINED	 Bottom Hole Location - Oil/Gas/Ds
 INACTIVE	
 STORAGE	
 TERMINATED	



VIA ELECTRONIC DELIVERY



July 23, 2012

State of Utah, Division of Oil, Gas and Mining
ATTN: Diana Mason
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Directional Drilling
GMBU G-21-9-16
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R16E Section 21: SWNW (UTU-64379)
2062' FNL 557' FWL

At Target: T9S-R16E Section 21: NENW (UTU-64379)
1276' FNL 1556' FWL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 7/19/2012, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4121 or by email at lburget@newfield.com. Your consideration in this matter is greatly appreciated.

Sincerely,
Newfield Production Company

A handwritten signature in cursive script that reads "Leslie Burget".

Leslie Burget
Land Associate

Form 3160-3
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU64379
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator NEWFIELD PRODUCTION COMPANY Contact: MANDIE CROZIER Email: mcrozier@newfield.com		7. If Unit or CA Agreement, Name and No. GREATER MONUMENT
3a. Address ROUTE #3 BOX 3630 MYTON, UT 84052	3b. Phone No. (include area code) Ph: 435-646-4825 Fx: 435-646-3031	8. Lease Name and Well No. GMBU G-21-9-16
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNW 2062FNL 557FWL At proposed prod. zone NENW 1276FNL 1556FWL		9. API Well No.
14. Distance in miles and direction from nearest town or post office* 18.5		10. Field and Pool, or Exploratory MONUMENT BUTTE
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1276'	16. No. of Acres in Lease 1626.30	11. Sec., T., R., M., or Blk. and Survey or Area Sec 21 T9S R16E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 855'	19. Proposed Depth 6040 MD 5880 TVD	12. County or Parish DUCESNE
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6040 GL	22. Approximate date work will start 10/31/2012	13. State UT
20. BLM/BIA Bond No. on file WYB000493		17. Spacing Unit dedicated to this well 20.00
23. Estimated duration 7 DAYS		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) MANDIE CROZIER Ph: 435-646-4825	Date 07/19/2012
Title REGULATORY ANALYST		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #143442 verified by the BLM Well Information System
For NEWFIELD PRODUCTION COMPANY, sent to the Vernal

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

API Well Number: 43013515690000

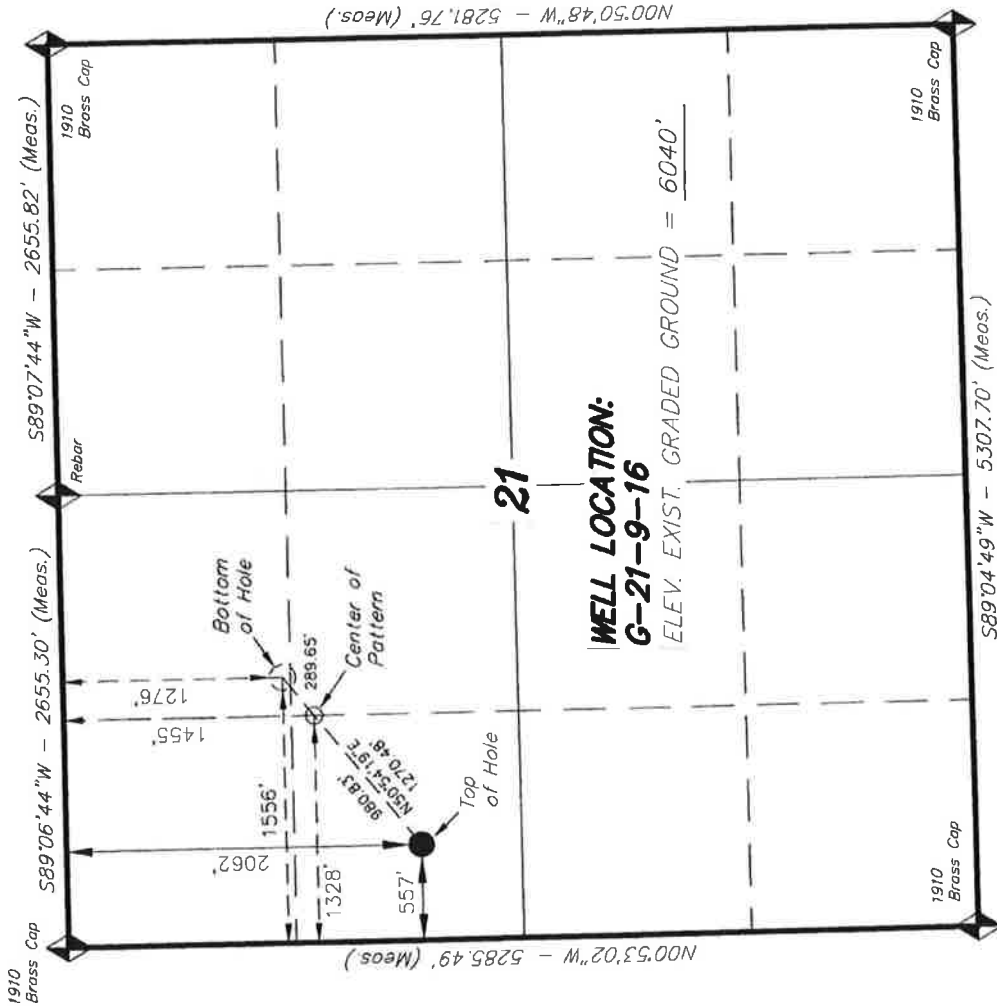
Additional Operator Remarks:

SURFACE LEASE: UTU-64379

BOTTOM HOLE LEASE: UTU-64379

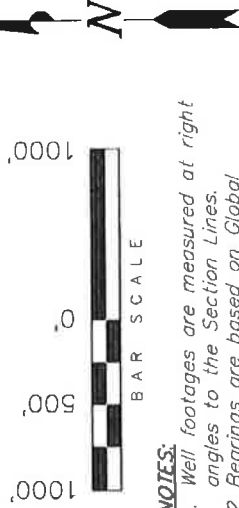
T9S, R16E, S.L.B.&M.

NEWFIELD EXPLORATION COMPANY



WELL LOCATION, G-21-9-16, LOCATED AS SHOWN IN THE SW 1/4 NW 1/4 OF SECTION 21, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, G-21-9-16, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 21, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



- NOTES:**
- 1. Well footages are measured at right angles to the Section Lines.
 - 2. Bearings are based on Global Positioning Satellite observations.

THIS IS TO CERTIFY THAT THE ABOVE SURVEY WAS PREPARED FROM FIELD NOTES OF ACCURATE SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

STACY W. STEWART
REGISTERED LAND SURVEYOR
STATE OF UTAH
07-12-12
189377

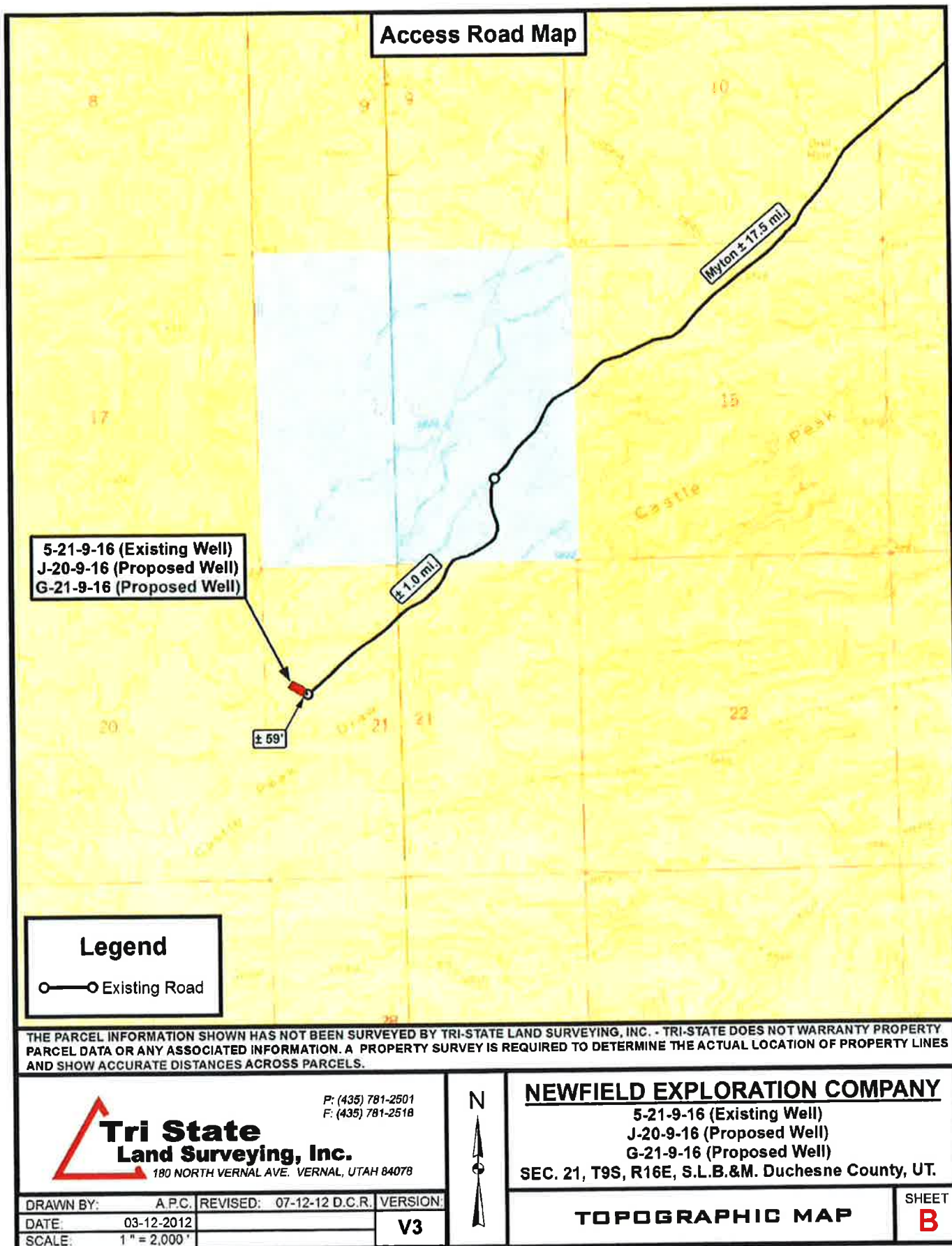
TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

G-21-9-16
(Surface Location) NAD 83
LATITUDE = 40° 01' 04.65"
LONGITUDE = 110° 07' 54.39"

DATE SURVEYED: 02-23-12	SURVEYED BY: M.C.	VERSION: V3
DATE DRAWN: 04-24-12	DRAWN BY: M.W.	
REVISED: 07-12-12 M.W.	SCALE: 1" = 1000'	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

July 31, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Greater Monument
Butte Unit, Duchesne and Uintah Counties,
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-51563	GMBU H-8-9-16	Sec 08 T09S R16E 2023 FNL 2183 FEL
	BHL	Sec 08 T09S R16E 1169 FNL 2473 FWL
43-013-51564	GMBU H-20-9-16	Sec 20 T09S R16E 2110 FNL 1934 FEL
	BHL	Sec 20 T09S R16E 1152 FNL 2457 FWL
43-013-51565	GMBU R-8-9-16	Sec 08 T09S R16E 0710 FSL 1908 FEL
	BHL	Sec 08 T09S R16E 1512 FSL 2314 FWL
43-013-51566	GMBU P-14-9-15	Sec 15 T09S R15E 0763 FSL 0423 FEL
	BHL	Sec 14 T09S R15E 1561 FSL 0172 FWL
43-013-51567	GMBU M-18-9-16	Sec 18 T09S R16E 2014 FSL 1914 FEL
	BHL	Sec 18 T09S R16E 2424 FNL 2307 FWL
43-013-51568	GMBU J-20-9-16	Sec 21 T09S R16E 2041 FNL 0553 FWL
	BHL	Sec 20 T09S R16E 1154 FNL 0095 FEL
43-013-51569	GMBU G-21-9-16	Sec 21 T09S R16E 2062 FNL 0557 FWL
	BHL	Sec 21 T09S R16E 1276 FNL 1556 FWL
43-013-51570	GMBU S-14-9-15	Sec 14 T09S R15E 1963 FSL 0882 FEL
	BHL	Sec 14 T09S R15E 1068 FSL 1301 FEL

RECEIVED: July 31, 2012

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-51571	GMBU I-18-9-16	Sec 18 T09S R16E 1936 FNL 1914 FEL
	BHL	Sec 18 T09S R16E 1062 FNL 0820 FEL
43-013-51572	GMBU L-18-9-16	Sec 18 T09S R16E 1955 FNL 1924 FEL
	BHL	Sec 18 T09S R16E 2485 FNL 0972 FEL
43-013-51573	GMBU H-17-9-16	Sec 17 T09S R16E 1944 FNL 2044 FWL
	BHL	Sec 17 T09S R16E 0993 FNL 2432 FEL
43-013-51574	GMBU S-15-9-15	Sec 15 T09S R15E 0768 FSL 0444 FEL
	BHL	Sec 15 T09S R15E 1317 FSL 1367 FEL
43-013-51575	GMBU O-13-9-15	Sec 14 T09S R15E 1952 FSL 0864 FEL
	BHL	Sec 13 T09S R15E 2537 FNL 0036 FWL
43-013-51576	GMBU Q-14-9-15	Sec 14 T09S R15E 2061 FSL 1946 FWL
	BHL	Sec 14 T09S R15E 1147 FSL 1132 FWL
43-013-51577	GMBU L-20-9-16	Sec 20 T09S R16E 2117 FNL 1914 FEL
	BHL	Sec 20 T09S R16E 2522 FSL 1123 FEL
43-013-51578	GMBU R-14-9-15	Sec 14 T09S R15E 2057 FSL 1967 FWL
	BHL	Sec 14 T09S R15E 1037 FSL 2623 FEL
43-013-51579	GMBU W-16-9-16	Sec 21 T09S R16E 0726 FNL 1924 FWL
	BHL	Sec 16 T09S R16E 0353 FSL 2559 FWL
43-013-51580	GMBU L-23-9-15	Sec 23 T09S R15E 2041 FSL 0713 FEL
	BHL	Sec 23 T09S R15E 2545 FNL 1706 FEL
43-013-51581	GMBU N-17-9-16	Sec 17 T09S R16E 1965 FNL 2048 FWL
	BHL	Sec 17 T09S R16E 2306 FSL 1008 FWL
43-013-51582	GMBU H-21-9-16	Sec 21 T09S R16E 0726 FNL 1945 FWL
	BHL	Sec 21 T09S R16E 1505 FNL 2434 FEL
43-013-51587	GMBU J-17-9-16	Sec 16 T09S R16E 2100 FNL 0750 FWL
	BHL	Sec 17 T09S R16E 0988 FNL 0237 FEL
43-013-51588	GMBU J-17-9-16	Sec 16 T09S R16E 2100 FNL 0750 FWL
	BHL	Sec 17 T09S R16E 0988 FNL 0237 FEL
43-013-51589	GMBU C-17-9-16	Sec 08 T09S R16E 0704 FSL 1929 FEL
	BHL	Sec 17 T09S R16E 0329 FNL 2480 FWL
43-013-51590	GMBU P-24-9-15	Sec 23 T09S R15E 2038 FSL 0692 FEL
	BHL	Sec 24 T09S R15E 1073 FSL 0180 FWL

Please be advised that the GMBU J-17-9-16 has erroneously been entered twice into the UDOGM system under API Number 43-013-51587 and 43-013-51588.

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals,
email=Michael_Coulthard@blm.gov, c=US
Date: 2012.07.31 09:41:28 -0600

bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:7-31-12

RECEIVED: July 31, 2012

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

July 31, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Greater Monument
Butte Unit, Duchesne and Uintah Counties,
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This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals,
email=Michael_Coulthard@blm.gov, c=US
Date: 2012.07.31 09:41:28 -0600

bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:7-31-12

RECEIVED: July 31, 2012

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/16/2012

API NO. ASSIGNED: 43013515690000

WELL NAME: GMBU G-21-9-16

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: SWNW 21 090S 160E

Permit Tech Review: ☒

SURFACE: 2062 FNL 0557 FWL

Engineering Review: ☐

BOTTOM: 1276 FNL 1556 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.01786

LONGITUDE: -110.13180

UTM SURF EASTINGS: 574091.00

NORTHINGS: 4430101.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-64379

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ PLAT
- ☒ Bond: FEDERAL - WYB000493
- ☐ Potash
- ☐ Oil Shale 190-5
- ☐ Oil Shale 190-3
- ☐ Oil Shale 190-13
- ☒ Water Permit: 437478
- ☐ RDCC Review:
- ☐ Fee Surface Agreement
- ☐ Intent to Commingle

Commingling Approved

LOCATION AND SITING:

- ☐ R649-2-3.
- Unit: GMBU (GRRV)
- ☐ R649-3-2. General
- ☐ R649-3-3. Exception
- ☒ Drilling Unit
- Board Cause No: Cause 213-11
- Effective Date: 11/30/2009
- Siting: Suspends General Siting
- ☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason
15 - Directional - dmason
27 - Other - bhill

RECEIVED: August 02, 2012



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: GMBU G-21-9-16
API Well Number: 43013515690000
Lease Number: UTU-64379
Surface Owner: FEDERAL
Approval Date: 8/2/2012

Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

RECEIVED

JUL 19 2012

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APD PMT RCVD

JUL 19 2012

BLM

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM - VFO

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU64379
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator NEWFIELD PRODUCTION COMPANY Contact: MANDIE CROZIER Email: mcrozier@newfield.com		7. If Unit or CA Agreement, Name and No. GREATER MONUMENT
3a. Address ROUTE #3 BOX 3630 MYTON, UT 84052	3b. Phone No. (include area code) Ph: 435-646-4825 Fx: 435-646-3031	8. Lease Name and Well No. GMBU G-21-9-16
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNW 2062FNL 557FWL At proposed prod. zone NENW 1276FNL 1556FWL		9. API Well No. 4301351569
14. Distance in miles and direction from nearest town or post office* 18.5	16. No. of Acres in Lease 1626.30	10. Field and Pool, or Exploratory MONUMENT BUTTE
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1276'	19. Proposed Depth 6040 MD 5880 TVD	11. Sec., T., R., M., or Blk. and Survey or Area Sec 21 T9S R16E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 855'	22. Approximate date work will start 10/31/2012	12. County or Parish DUCHESNE
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6040 GL	23. Estimated duration 7 DAYS	13. State UT

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) MANDIE CROZIER Ph: 435-646-4825	Date 07/19/2012
Title REGULATORY ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JAN 07 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

JAN 14 2013

Additional Operator Remarks (see next page)

DIV. OF OIL, GAS & MINING

Electronic Submission #143442 verified by the BLM Well Information System
For NEWFIELD PRODUCTION COMPANY, sent to the Vernal
Committed to AFMSS for processing by LESLIE ROBINSON on 08/01/2013

UDOGM

NOTICE OF APPROVAL

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

12UBR0843AE NO NOS APD Posted 8/1/12



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Newfield Production Company
Well No: GMBU G-21-9-16
API No: 43-013-51566

Location: SWNW, Sec. 21 T9S, R16E
Lease No: UTU-64379
Agreement:

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

Monitoring and Reporting

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.
- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) 3 growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the Green River District Reclamation Guidelines have been met (30% or greater basal cover).
- Prior to beginning new surface disturbance, the operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) providing the results of the noxious weed inventory described in the Green River District Reclamation Guidelines (2011). If weeds are found the report shall include 1) A GPS location recorded in North American Datum 1983; 2) species; 3) canopy cover or number of plants; 4) and size of infestation (estimate square feet or acres. Information shall be also documented in the reclamation report.

CONDITIONS OF APPROVAL

Wildlife

In accordance with the Record of Decision for the Castle Peak and Eightmile Flat Oil and Gas Expansion Project, Newfield Rocky Mountains Inc., the following COA's are required:

- WFM-1 On level or gently sloping ground (5 percent slope or less) Newfield will elevate surface pipelines (4 inches or greater in diameter) a minimum of 6 inches above the ground to allow passage of small animals beneath the pipe. This ground clearance will be achieved by placing the pipeline on blocks at intervals of 150 to 200 feet.
- WFM-4 Newfield will install noise reduction devices on all pump jacks to reduce intermittent noise to 45 dBA at 660 feet from the source.

COA's derived from mitigating measures in the EA:

- Newfield will contract with a qualified biologist to conduct a breeding bird survey within 330 feet (100 meters) from proposed construction activities that would occur during the breeding season from April 1 through July 31. If an active nest for important migratory bird species (USFWS Bird of Conservation Concern, Partners in Flight Priority Bird Species, Utah Sensitive Species) is documented during the survey, Newfield will coordinate with BLM to determine if any additional protection measures will be required. Alternatively, within a year prior to surface disturbing activities, Newfield will conduct any pre-construction vegetation clearing to discourage migratory birds from nesting in the immediate vicinity of operations. The vegetation clearance must be conducted outside of the breeding season (April 1 through July 31).

If construction and drilling is anticipated during any of the following wildlife seasonal spatial restrictions, a BLM biologist or a qualified consulting firm biologist must conduct applicable surveys using an accepted protocol prior to any ground disturbing activities.

- The proposed project is within ½ mile of a golden eagle nest(s). If construction or drilling is proposed from January 1-August 31 then a nest survey will be conducted by a qualified biologist. If the nest is found to be inactive, then permission to proceed may be granted by the BLM Authorized Officer. If the nest is determined to be active, then the timing restriction will remain in effect.

For protection of T&E Fish if drawing water from the Green River

- For areas of fresh water collection, an infiltration gallery will be constructed in a Service approved location. An infiltration gallery is basically a pit or trench dug within the floodplain to a depth below the water table. Water is drawn from the pit rather than from the river directly. If this is not possible, limit pumping within the river to off-channel locations that do not connect to the river during high spring flows.
- If water cannot be drawn using the measures above and the pump head will be located in the river channel where larval fish are known to occur, the following measures apply:
 - Avoid pumping from low-flow or no-flow areas as these habitats tend to concentrate larval fish
 - Avoid pumping to the greatest extent possible, during that period of the year when larval fish may be present (see previous bullet); and
 - Avoid pumping, to the greatest extent possible, during the midnight hours (10:00 p.m. to 2:00 a.m.) as larval drift studies indicate that this is a period of greatest daily activity. Dusk is the preferred pumping time, as larval drift abundance is lowest during this time.
 - Screen all pump intakes with 3/32-inch mesh material.
- Report any fish impinged on the intake screen to the FWS office (801.975.3330) and the: Utah Division of Wildlife Resources

Northeastern Region

152 East 100 North

Vernal, UT 84078

(435) 781-9453

Air Quality

- All internal combustion equipment will be kept in good working order.
- Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer. Dust suppressant such as magnesium chloride or fresh water may be used, as needed, during the drilling phase.
- Open burning of garbage or refuse will not occur at well sites or other facilities.
- Drill rigs will be equipped with Tier II or better diesel engines.
- Low bleed pneumatics will be installed on separator dump valves and other controllers.
- During completion, no venting will occur, and flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
- Telemetry will be installed to remotely monitor and control production.
- Signs will be installed on the access road, reducing speed to 25 MPH, during the drilling phase.
- When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters (m) from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour NO₂ National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that could include but is not limited to natural gas-fired drill rigs, installation of NO_x controls, time/use restrictions, and/or drill rig spacing.
- Green completions will be used for all well completion activities where technically feasible.
- Employ enhanced VOC emission controls with 95% control efficiency on production equipment having a potential to emit greater than 5 tons per year.

DOWNHOLE PROGRAM

CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

Site Specific Drilling Plan COA's:

- Newfield Production Co. shall adhere to all referenced requirements in the SOP (version: "Greater Monument Butte Green River Development Program", Feb 16, 2012).
- The operator shall also comply with applicable laws and regulations; with lease terms Onshore Oil and Gas Orders, NTL's; and with other orders and instructions of the, authorized officer.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-64379			
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)			
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052		8. WELL NAME and NUMBER: GMBU G-21-9-16			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2062 FNL 0557 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 21 Township: 09.0S Range: 16.0E Meridian: S		9. API NUMBER: 43013515690000			
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE			
COUNTY: DUCHESNE		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/2/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER:
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Newfield proposes to extend the Application for Permit to Drill this well.					
<p style="color: red; margin: 0;"> Approved by the Utah Division of Oil, Gas and Mining </p> <p style="color: red; margin: 0;"> Date: July 16, 2013 </p> <p style="color: red; margin: 0;"> By: </p>					
NAME (PLEASE PRINT) Mandie Crozier		PHONE NUMBER 435 646-4825			
SIGNATURE N/A		TITLE Regulatory Tech			
DATE 7/15/2013					



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013515690000

API: 43013515690000

Well Name: GMBU G-21-9-16

Location: 2062 FNL 0557 FWL QTR SWNW SEC 21 TWNP 090S RNG 160E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 8/2/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Mandie Crozier

Date: 7/15/2013

Title: Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By
Branden Arnold Phone Number 435-401-0223
Well Name/Number GMBU G-21-9-16
Qtr/Qtr SW/NW Section 21 Township 9S Range 16E
Lease Serial Number UTU-64379
API Number 43-013-51569

Spud Notice – Spud is the initial spudding of the well, not drilling
out below a casing string.

Date/Time 12/3/13 7:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing
times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 12/3/13 3:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

RECEIVED

DEC 02 2013

DIV. OF OIL, GAS & MINING

Date/Time _____ AM ☐ PM ☐

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-64379
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PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 12/3/2013	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL TYPE	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. On 12/3/13 Drill and set 4' of 14" conductor. Drill F/4' to 332' KB of 12 1/4 hole. P/U and run 7 joints of 8 5/8 casing set depth 327'KB. On 12/4/13 Cement w/ 180 sx of 15.8 # 1.17 yield G Neat cement returned 6 bbls bsck to pit and bumped plug to 460 psi		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 24, 2013		
NAME (PLEASE PRINT) Cherei Neilson	PHONE NUMBER 435 646-4883	TITLE Drilling Technician
SIGNATURE N/A	DATE 12/23/2013	

NEWFIELD**Casing****Conductor**

Legal Well Name GMBU G-21-9-16				Wellbore Name Original Hole					
API/UWI 43013515690000		Surface Legal Location SWNW 2062 FNL 557 FWL Sec 21 T9S R16E Mer SLB		Field Name GMBU CTB5		Well Type Development		Well Configuration Type Slant	
Well RC 500335136		County Duchesne		State/Province Utah		Spud Date 12/3/2013 08:00		Final Rig Release Date	

Wellbore					
Wellbore Name Original Hole				Kick Off Depth (ftKB)	
Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	14	10	14	12/3/2013	12/3/2013
Vertical	12 1/4	14	332	12/3/2013	12/3/2013
Slant	7 7/8	6,225	6,225	12/3/2013	

Wellhead			
Type	Install Date	Service	Comment

Wellhead Components				
Des	Make	Model	SN	WP Top (psi)

Casing				
Casing Description Conductor	Set Depth (ftKB) 14	Run Date 12/8/2013	Set Tension (kips)	
Centralizers	Scratchers			

Casing Components												
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)
Conductor	14	13.500	36.75	H-40		1	4.00	10.0	14.0			

Jewelry Details									
External Casing Packer									
Type	Setting Requirement			Release Requirements			Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)
Inflation Fluid Type	Infl Fl Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)		

Slotted Liner							
% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)	
Slot Description	Slot Pattern			Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)

Liner Hanger					
Retrievable?	Elastomer Type	Element Center Depth (ft)	Polish Bore Size (in)	Polish Bore Length (ft)	
Slip Description			Set Mechanics		
Setting Procedure					
Unsetting Procedure					

NEWFIELD**Casing****Surface**

Legal Well Name GMBU G-21-9-16				Wellbore Name Original Hole					
API/UWI 43013515690000		Surface Legal Location SWNW 2062 FNL 557 FWL Sec 21 T9S R16E Mer SLB		Field Name GMBU CTB5		Well Type Development		Well Configuration Type Slant	
Well RC 500335136		County Duchesne		State/Province Utah		Spud Date 12/3/2013 08:00		Final Rig Release Date	

Wellbore					
Wellbore Name Original Hole				Kick Off Depth (ftKB)	
Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	14	10	14	12/3/2013	12/3/2013
Vertical	12 1/4	14	332	12/3/2013	12/3/2013
Slant	7 7/8	6,225	6,225	12/3/2013	

Wellhead			
Type	Install Date	Service	Comment

Wellhead Components				
Des	Make	Model	SN	WP Top (psi)

Casing				
Casing Description Surface	Set Depth (ftKB) 327	Run Date 12/3/2013	Set Tension (kips)	
Centralizers 3	Scratchers			

Casing Components												
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)
Wellhead	8 5/8	8.097	24.00	J-55	ST&C	1	2.50	9.9	12.5			
Cut off	8 5/8	8.097	24.00	J-55	ST&C	1	42.84	12.5	55.3			
Casing Joints	8 5/8	8.097	24.00	J-55	ST&C	5	224.32	55.3	279.6			
Float Collar	8 5/8	8.097	24.00	J-55	ST&C	1	1.00	279.6	280.6			
Shoe Joint	8 5/8	8.097	24.00	J-55	ST&C	1	44.89	280.6	325.5			
Guide Shoe	8 5/8	8.097	24.00	J-55	ST&C	1	1.50	325.5	327.0			

Jewelry Details									
External Casing Packer									
Type	Setting Requirement	Release Requirements			Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)		
Inflation Fluid Type	Infl Fl Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)		

Slotted Liner							
% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)	
Slot Description	Slot Pattern		Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)	

Liner Hanger				
Retrievable?	Elastomer Type	Element Center Depth (ft)	Polish Bore Size (in)	Polish Bore Length (ft)
Slip Description			Set Mechanics	
Setting Procedure				
Unsetting Procedure				

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# NDSI SS #1
Submitted By Ryan Crum Phone Number 823-7065
Well Name/Number GMBU G-21-9-16
Qtr/Qtr SW/NW Section 21 Township 9s Range 16e
Lease Serial Number UTU-64379
API Number 43-013-51566 7

TD Notice – TD is the final drilling depth of hole.

Date/Time 12/20/13 6:00 AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 12/21/13 5:00 AM ☐ PM ☐

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DEC 19 2013

DIV. OF OIL, GAS & MINERAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
 b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
 Other: _____

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

3. Address ROUTE #3 BOX 3630
MYTON, UT 84052

3a. Phone No. (include area code)
Ph: 435-646-3721

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 2062' FNL 557' FWL (SW/NW) SEC 21 T9S 16E (UTU-64379)

At top prod. interval reported below 1488' FNL 1260' FWL (SW/NW) SEC 21 T9S 16E (UTU-64379)

At total depth 1245' FNL 1566' FWL (NE/NW) SEC 21 T9S R16E (UTU-64379)

14. Date Spudded
12/03/2013

15. Date T.D. Reached
12/22/2013

16. Date Completed 01/17/2014
☐ D & A ☒ Ready to Prod.

5. Lease Serial No.
UTU64379

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
UTU87538X

8. Lease Name and Well No.
GMBU G-21-9-16

9. API Well No.
43-013-51569

10. Field and Pool or Exploratory
MONUMENT BUTTE

11. Sec., T., R., M., on Block and
Survey or Area SEC 21 T9S R16E Mer SLBQ

12. County or Parish DUCHESNE
13. State UT

18. Total Depth: MD 6224'
TVD 6059'

19. Plug Back T.D.: MD 6194'
TVD

20. Depth Bridge Plug Set: MD
TVD

17. Elevations (DF, RKB, RT, GL)*
6040' GL 6050' KB

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DUAL IND GRD, SP, COMP. NEUTRON, GR, CALIPER, CMT BOND

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cement Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24	0'	327'		180 CLASS G			
7-7/8"	5-1/2" J-55	15.50	0'	6219'		280 Econocem		55'	
						480 Expandacem			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@5876'	TA@5774'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	4532'	5806'	4532' - 5806' MD	0.34	62	
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
4532' - 5806' MD	Frac w/ 455,278#s of 20/40 white sand in 3805 bbls of Lightning 17 fluid, in 4 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
1/17/14	1/28/14	24	→	30	14	120			2.5 X 1.75 X 24' RHAC
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers
GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MARK GARDEN GULCH 1	3698' 3922'
				GARDEN GULCH 2 POINT 3	4029' 4283'
				X MRKR Y MRKR	4560' 4595'
				DOUGLAS CREEK MRK BI CARBONATE MRK	4707' 4951'
				B LIMESTONE MRK CASTLE PEAK	5050' 5595'
				BASAL CARBONATE WASATCH	6082' 6212'

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☒ Other: Drilling daily activity

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Heather Calder Title Regulatory Technician
 Signature Heather Calder Date 02/03/2014

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)

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NEWFIELD EXPLORATION

USGS Myton SW (UT)
SECTION 21 T9S, R16E
G-21-9-16
Wellbore #1

Design: Actual

End of Well Report

23 December, 2013





Payzone Directional
End of Well Report

API Well Number: 43013515690000



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T9S, R16E
Well: G-21-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference:
TVD Reference: Well G-21-9-16
MD Reference: G-21-9-16 @ 6050.0usft (SS #1)
North Reference: G-21-9-16 @ 6050.0usft (SS #1)
Survey Calculation Method: True
Database: Minimum Curvature
EDM 5000.1 Single User Db

Project: USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: Utah Central Zone

System Datum: Mean Sea Level

Site: SECTION 21 T9S, R16E

Site Position: Northing: 7,178,195.78 usft Latitude: 40° 1' 4.650 N
From: Easting: 2,023,590.50 usft Longitude: 110° 7' 54.390 W
Position Uncertainty: Slot Radius: 13-3/16 " Grid Convergence: 0.88 °

Well: G-21-9-16, SHL LAT: 40°01'04.65" LONG: -110°07'54.39"

Well Position: +N/-S 0.0 usft Northing: 7,178,195.77 usft Latitude: 40° 1' 4.650 N
+E/-W 0.0 usft Easting: 2,023,590.50 usft Longitude: 110° 7' 54.390 W
Position Uncertainty: Wellhead Elevation: 6,050.0 usft Ground Level: 6,040.0 usft

Wellbore: Wellbore #1

Magnetics: Model Name IGRF2010 Sample Date 4/9/2012 Declination (°) 11.23 Dip Angle (°) 65.74 Field Strength (nT) 52,161

Design: Actual

Audit Notes: Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0

Vertical Section: Depth From (TVD) (usft) 0.0 +N/-S (usft) 0.0 +E/-W (usft) 0.0 Direction (°) 51.01

Survey Program: Date 12/23/2013

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
374.0	6,224.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

RECEIVED: Feb. 04, 2014



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T9S, R16E
Well: G-21-9-16
Wellbore #1
Design: Actual

Local Co-ordinate Reference:
TVD Reference: Well G-21-9-16
MD Reference: G-21-9-16 @ 6050.0usft (SS #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	374.0	0.60	199.50	374.0	-1.7	-1.8	-0.7	0.16	0.16	0.00
	404.0	0.60	185.20	404.0	-1.9	-2.2	-0.7	0.50	0.00	-47.67
	435.0	0.50	175.20	435.0	-2.1	-2.4	-0.7	0.45	-0.32	-32.26
	465.0	0.40	163.70	465.0	-2.2	-2.7	-0.7	0.45	-0.33	-38.33
	496.0	0.40	133.40	496.0	-2.2	-2.9	-0.6	0.67	0.00	-97.74
	526.0	0.50	108.30	526.0	-2.2	-3.0	-0.4	0.73	0.33	-83.67
	557.0	0.60	87.10	557.0	-2.0	-3.0	-0.1	0.73	0.32	-68.39
	587.0	0.80	77.70	587.0	-1.6	-3.0	0.3	0.77	0.67	-31.33
	618.0	1.00	69.40	618.0	-1.2	-2.8	0.7	0.77	0.65	-26.77
	648.0	1.30	60.80	648.0	-0.6	-2.6	1.3	1.15	1.00	-28.67
	678.0	1.60	55.40	678.0	0.1	-2.1	1.9	1.10	1.00	-18.00
	709.0	1.90	49.20	708.9	1.1	-1.6	2.7	1.14	0.97	-20.00
	739.0	2.20	46.10	738.9	2.2	-0.8	3.5	1.07	1.00	-10.33
	769.0	2.30	40.30	768.9	3.3	0.0	4.3	0.83	0.33	-19.33
	799.0	2.60	39.60	798.9	4.6	1.0	5.1	1.00	1.00	-2.33
	830.0	3.10	36.70	829.8	6.1	2.2	6.0	1.68	1.61	-9.35
	860.0	3.70	33.40	859.8	7.8	3.7	7.1	2.10	2.00	-11.00
	891.0	4.20	29.50	890.7	9.8	5.5	8.2	1.83	1.61	-12.58
	921.0	4.60	29.20	920.6	11.9	7.5	9.3	1.34	1.33	-1.00
	951.0	5.00	31.40	950.5	14.3	9.7	10.6	1.47	1.33	7.33
	982.0	5.40	33.60	981.4	17.0	12.0	12.1	1.44	1.29	7.10
	1,012.0	5.80	33.90	1,011.3	19.8	14.5	13.7	1.34	1.33	1.00
	1,042.0	6.50	36.00	1,041.1	22.8	17.1	15.5	2.45	2.33	7.00
	1,088.0	7.80	38.50	1,086.7	28.4	21.7	19.0	2.91	2.83	5.43
	1,131.0	8.70	41.60	1,129.3	34.5	26.4	23.0	2.33	2.09	7.21
	1,177.0	9.40	39.70	1,174.7	41.6	31.9	27.7	1.65	1.52	-4.13

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Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 21 T9S, R16E
 Well: G-21-9-16
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well G-21-9-16
 TVD Reference: G-21-9-16 @ 6050.0usft (SS #1)
 MD Reference: G-21-9-16 @ 6050.0usft (SS #1)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
1,221.0	10.00	40.10	1,218.1	48.9	37.5	32.5	1.37	1.36	0.91
1,267.0	10.80	41.30	1,263.3	57.0	43.8	37.9	1.80	1.74	2.61
1,313.0	11.40	40.40	1,308.5	65.7	50.5	43.7	1.36	1.30	-1.96
1,356.0	12.00	40.60	1,350.6	74.3	57.2	49.3	1.40	1.40	0.47
1,402.0	12.50	41.80	1,395.5	83.9	64.5	55.8	1.22	1.09	2.61
1,448.0	13.00	44.00	1,440.4	94.0	71.9	62.7	1.51	1.09	4.78
1,492.0	13.40	46.10	1,483.2	104.0	79.0	69.8	1.42	0.91	4.77
1,537.0	13.80	47.90	1,527.0	114.5	86.3	77.5	1.29	0.89	4.00
1,583.0	14.50	49.40	1,571.6	125.8	93.7	86.0	1.72	1.52	3.26
1,629.0	14.80	49.80	1,616.1	137.4	101.2	94.8	0.69	0.65	0.87
1,673.0	14.60	49.00	1,658.6	148.6	108.5	103.3	0.65	-0.45	-1.82
1,719.0	14.60	47.50	1,703.1	160.1	116.2	112.0	0.82	0.00	-3.26
1,762.0	14.80	48.20	1,744.7	171.0	123.5	120.0	0.62	0.47	1.63
1,808.0	14.90	50.30	1,789.2	182.8	131.2	129.0	1.19	0.22	4.57
1,852.0	14.90	51.40	1,831.7	194.1	138.4	137.7	0.64	0.00	2.50
1,896.0	14.60	49.90	1,874.3	205.3	145.5	146.4	1.10	-0.68	-3.41
1,939.0	14.60	49.80	1,915.9	216.2	152.5	154.7	0.06	0.00	-0.23
1,983.0	14.70	49.10	1,958.4	227.3	159.7	163.2	0.46	0.23	-1.59
2,029.0	14.90	48.90	2,002.9	239.0	167.4	172.0	0.45	0.43	-0.43
2,073.0	15.20	48.90	2,045.4	250.4	174.9	180.6	0.68	0.68	0.00
2,117.0	15.30	52.20	2,087.9	262.0	182.3	189.6	1.99	0.23	7.50
2,162.0	15.20	55.70	2,131.3	273.8	189.2	199.1	2.06	-0.22	7.78
2,208.0	15.60	57.50	2,175.6	286.0	195.9	209.3	1.35	0.87	3.91
2,254.0	15.60	59.10	2,219.9	298.3	202.4	219.8	0.94	0.00	3.48
2,298.0	15.30	56.40	2,262.3	309.9	208.7	229.8	1.77	-0.68	-6.14
2,344.0	15.60	54.40	2,306.7	322.1	215.7	239.8	1.33	0.65	-4.35
2,390.0	16.00	54.40	2,350.9	334.6	222.9	250.0	0.87	0.87	0.00

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Company:
Project:
Site:
Well:
Wellbore:
Design:

NEWFIELD EXPLORATION
USGS Mylon SW (UT)
SECTION 21 T9S, R16E
G-21-9-16
Wellbore #1
Actual

Local Co-ordinate Reference:

Well G-21-9-16

TV D Reference:

G-21-9-16 @ 6050.0usft (SS #1)

MD Reference:

G-21-9-16 @ 6050.0usft (SS #1)

North Reference:

True

Survey Calculation Method:

Minimum Curvature

Database:

EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TV D (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	D Leg (°/100usft)	Buid (°/100usft)	Turn (°/100usft)
2,435.0	16.00	55.60	2,394.2	347.0	230.1	260.2	0.74	0.00	2.67
2,479.0	16.00	55.90	2,436.5	359.1	236.9	270.2	0.19	0.00	0.68
2,525.0	15.90	54.40	2,480.7	371.7	244.1	280.6	0.92	-0.22	-3.26
2,571.0	16.00	54.50	2,525.0	384.3	251.5	290.9	0.23	0.22	0.22
2,615.0	16.00	54.90	2,567.3	396.4	258.5	300.8	0.25	0.00	0.91
2,659.0	16.30	54.70	2,609.5	408.6	265.5	310.8	0.69	0.68	-0.45
2,704.0	17.40	55.70	2,652.6	421.6	273.0	321.5	2.53	2.44	2.22
2,750.0	18.60	57.10	2,696.3	435.8	280.8	333.3	2.77	2.61	3.04
2,794.0	19.10	57.90	2,738.0	449.9	288.5	345.3	1.28	1.14	1.82
2,840.0	19.60	59.20	2,781.4	465.0	296.4	358.3	1.43	1.09	2.83
2,883.0	19.60	58.40	2,821.9	479.3	303.9	370.7	0.62	0.00	-1.86
2,927.0	19.20	57.20	2,863.4	493.8	311.7	383.0	1.28	-0.91	-2.73
2,973.0	18.60	56.00	2,906.9	508.6	319.9	395.5	1.55	-1.30	-2.61
3,017.0	18.50	55.20	2,948.6	522.6	327.8	407.0	0.62	-0.23	-1.82
3,063.0	17.80	54.00	2,992.3	536.9	336.1	418.7	1.73	-1.52	-2.61
3,108.0	16.70	52.50	3,035.3	550.2	344.1	429.4	2.64	-2.44	-3.33
3,152.0	16.40	51.80	3,077.5	562.7	351.7	439.3	0.82	-0.68	-1.59
3,196.0	16.70	51.20	3,119.7	575.3	359.5	449.1	0.78	0.68	-1.36
3,240.0	16.40	51.10	3,161.8	587.8	367.4	458.9	0.68	-0.68	-0.23
3,286.0	16.00	51.00	3,206.0	600.6	375.5	468.8	0.87	-0.87	-0.22
3,329.0	16.00	50.80	3,247.3	612.5	382.9	478.0	0.13	0.00	-0.47
3,375.0	15.80	50.30	3,291.6	625.1	391.0	487.8	0.53	-0.43	-1.09
3,419.0	15.80	49.80	3,333.9	637.1	398.6	496.9	0.31	0.00	-1.14
3,463.0	15.70	49.70	3,376.3	649.0	406.4	506.1	0.24	-0.23	-0.23
3,509.0	15.30	49.50	3,420.6	661.3	414.3	515.4	0.88	-0.87	-0.43
3,552.0	14.90	49.10	3,462.1	672.5	421.6	523.9	0.96	-0.93	-0.93
3,598.0	14.70	49.20	3,506.6	684.2	429.3	532.8	0.44	-0.43	0.22

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Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 21 T9S, R16E
 Well: G-21-9-16
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference:

Well G-21-9-16

G-21-9-16 @ 6050.0usft (SS #1)

MD Reference:

G-21-9-16 @ 6050.0usft (SS #1)

North Reference:

True

Survey Calculation Method:

Minimum Curvature

Database:

EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
3,644.0	14.20	48.60	3,551.1	695.7	436.9	541.5	1.13	-1.09	-1.30
3,688.0	13.80	48.90	3,593.8	706.4	443.9	549.5	0.92	-0.91	0.68
3,734.0	13.50	48.60	3,638.5	717.2	451.0	557.6	0.67	-0.65	-0.65
3,779.0	13.50	48.70	3,682.3	727.7	458.0	565.5	0.05	0.00	0.22
3,825.0	13.60	49.60	3,727.0	738.5	465.0	573.7	0.51	0.22	1.96
3,871.0	13.80	49.80	3,771.7	749.4	472.1	582.0	0.45	0.43	0.43
3,917.0	13.60	49.80	3,816.4	760.3	479.1	590.3	0.43	-0.43	0.00
3,962.0	13.80	50.60	3,860.1	770.9	485.9	598.5	0.61	0.44	1.78
4,006.0	14.40	52.20	3,902.8	781.6	492.6	606.9	1.63	1.36	3.64
4,050.0	14.30	53.10	3,945.4	792.5	499.2	615.5	0.56	-0.23	2.05
4,096.0	13.70	51.30	3,990.0	803.7	506.0	624.3	1.61	-1.30	-3.91
4,140.0	13.60	51.90	4,032.8	814.0	512.5	632.5	0.39	-0.23	1.36
4,186.0	13.60	51.60	4,077.5	824.9	519.2	641.0	0.15	0.00	-0.65
4,229.0	13.40	51.70	4,119.3	834.9	525.4	648.8	0.47	-0.47	0.23
4,275.0	13.50	49.90	4,164.1	845.6	532.2	657.1	0.94	0.22	-3.91
4,319.0	13.30	48.20	4,206.9	855.8	538.9	664.8	1.00	-0.45	-3.86
4,363.0	12.90	46.70	4,249.7	865.7	545.6	672.2	1.19	-0.91	-3.41
4,409.0	13.00	45.60	4,294.5	876.0	552.7	679.6	0.58	0.22	-2.39
4,455.0	13.10	45.30	4,339.4	886.3	560.0	687.0	0.26	0.22	-0.65
4,501.0	13.20	48.40	4,384.1	896.8	567.2	694.6	1.55	0.22	6.74
4,546.0	14.10	49.50	4,427.9	907.4	574.2	702.6	2.08	2.00	2.44
4,590.0	14.40	50.40	4,470.5	918.2	581.1	710.9	0.85	0.68	2.05
4,636.0	14.60	51.20	4,515.1	929.7	588.4	719.9	0.62	0.43	1.74
4,680.0	14.30	52.00	4,557.7	940.7	595.2	728.5	0.82	-0.68	1.82
4,726.0	13.80	52.50	4,602.3	951.9	602.1	737.3	1.12	-1.09	1.09
4,772.0	14.00	53.30	4,646.9	962.9	608.7	746.1	0.60	0.43	1.74
4,818.0	14.60	53.40	4,691.5	974.3	615.5	755.2	1.31	1.30	0.22

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Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T9S, R16E
Well: G-21-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well G-21-9-16
G-21-9-16 @ 6050.0usft (SS #1)
G-21-9-16 @ 6050.0usft (SS #1)
True
Minimum Curvature
EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
4,862.0	14.20	53.20	4,734.1	985.2	622.1	764.0	0.92	-0.91	-0.45
4,906.0	13.50	54.30	4,776.9	995.7	628.3	772.5	1.70	-1.59	2.50
4,950.0	13.20	54.30	4,819.7	1,005.9	634.2	780.7	0.68	-0.68	0.00
4,993.0	13.10	54.20	4,861.5	1,015.6	639.9	788.7	0.24	-0.23	-0.23
5,037.0	13.00	53.90	4,904.4	1,025.6	645.8	796.7	0.27	-0.23	-0.68
5,081.0	12.50	52.40	4,947.3	1,035.3	651.6	804.5	1.36	-1.14	-3.41
5,125.0	12.30	49.40	4,990.3	1,044.7	657.5	811.8	1.53	-0.45	-6.82
5,170.0	12.50	46.00	5,034.2	1,054.3	664.0	819.0	1.68	0.44	-7.56
5,216.0	13.10	45.30	5,079.1	1,064.5	671.2	826.3	1.35	1.30	-1.52
5,262.0	13.20	46.20	5,123.9	1,074.9	678.5	833.7	0.50	0.22	1.96
5,306.0	13.40	45.70	5,166.7	1,085.0	685.5	841.0	0.52	0.45	-1.14
5,352.0	14.30	44.90	5,211.4	1,096.0	693.2	848.8	2.00	1.96	-1.74
5,398.0	14.60	43.40	5,255.9	1,107.3	701.5	856.8	1.04	0.65	-3.26
5,441.0	14.40	43.40	5,297.5	1,118.0	709.3	864.2	0.47	-0.47	0.00
5,485.0	14.60	43.70	5,340.1	1,128.9	717.3	871.8	0.49	0.45	0.68
5,529.0	14.50	44.70	5,382.7	1,139.9	725.2	879.5	0.61	-0.23	2.27
5,575.0	14.10	48.50	5,427.3	1,151.2	733.0	887.8	2.22	-0.87	8.26
5,621.0	13.50	51.80	5,472.0	1,162.2	740.1	896.2	2.15	-1.30	7.17
5,665.0	13.40	54.00	5,514.8	1,172.4	746.2	904.4	1.18	-0.23	5.00
5,709.0	14.10	53.80	5,557.5	1,182.9	752.4	912.8	1.59	1.59	-0.45
5,753.0	13.70	53.90	5,600.2	1,193.4	758.6	921.3	0.91	-0.91	0.23
5,798.0	13.30	55.40	5,644.0	1,203.9	764.7	929.9	1.18	-0.89	3.33
5,842.0	13.40	56.60	5,686.8	1,214.0	770.4	938.3	0.67	0.23	2.73
5,888.0	13.20	57.20	5,731.6	1,224.6	776.2	947.2	0.53	-0.43	1.30
5,932.0	13.20	56.00	5,774.4	1,234.6	781.7	955.6	0.62	0.00	-2.73
5,976.0	13.30	56.00	5,817.2	1,244.6	787.3	963.9	0.23	0.23	0.00
6,020.0	13.20	59.00	5,860.1	1,254.6	792.8	972.4	1.58	-0.23	6.82

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Payzone Directional
End of Well Report



API Well Number: 43013515690000

Company: NEWFIELD EXPLORATION	Local Co-ordinate Reference: Well G-21-9-16
Project: USGS Myton SW (UT)	TVD Reference: G-21-9-16 @ 6050.0usft (SS #1)
Site: SECTION 21 T9S, R16E	MD Reference: G-21-9-16 @ 6050.0usft (SS #1)
Well: G-21-9-16	North Reference: True
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Actual	Database: EDM 5000.1 Single User Db

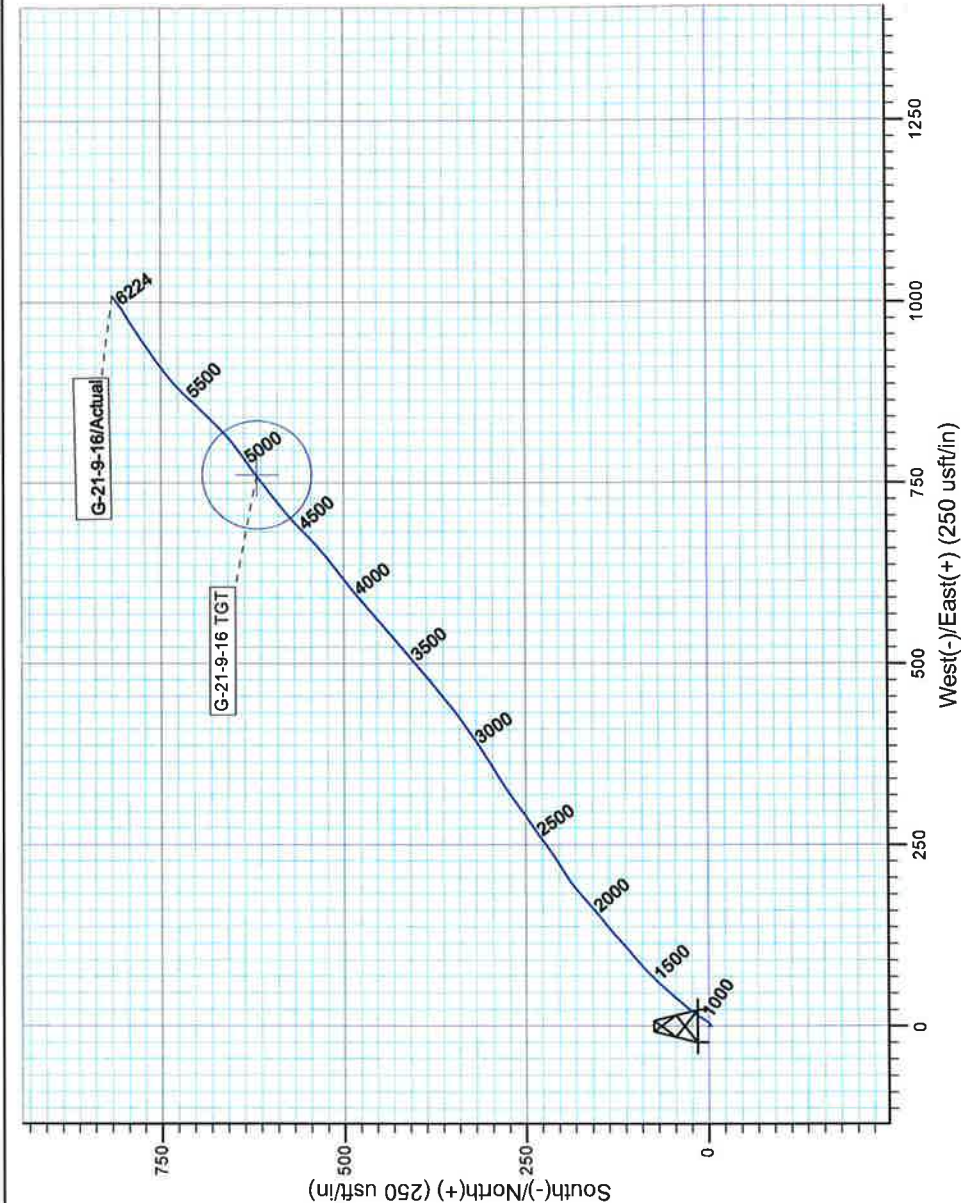
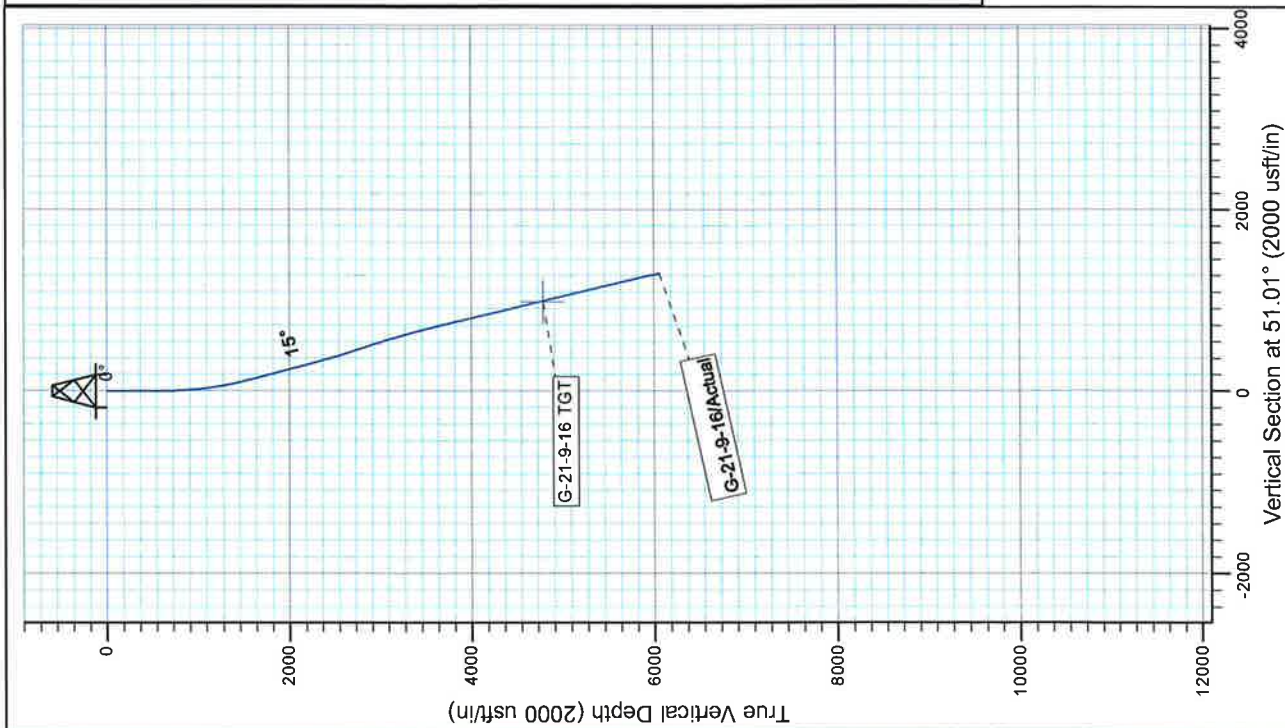
Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	6,066.0	12.50	59.10	5,904.9	1,264.8	798.0	981.2	1.52	-1.52	0.22
	6,109.0	12.10	57.60	5,946.9	1,273.8	802.8	989.0	1.19	-0.93	-3.49
	6,171.0	12.30	53.90	6,007.5	1,286.9	810.2	999.8	1.30	0.32	-5.97
	6,224.0	12.30	53.90	6,059.3	1,298.2	816.8	1,009.0	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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RECEIVED: Feb. 04, 2014

Project: USGS Myton SW (UT)
 Site: SECTION 21 T9S, R16E
 Well: G-21-9-16
 Wellbore: Wellbore #1
 Design: Actual

Azimuths to True North
 Magnetic North: 11.23°
 Magnetic Field
 Strength: 52160.8snT
 Dip Angle: 65.74°
 Date: 4/9/2012
 Model: IGRF2010



Design: Actual (G-21-9-16/Wellbore #1)

Created By: Matthew Linton

Date: 16:52, December 23 2012

THIS SURVEY IS CORRECT TO THE BEST OF
 MY KNOWLEDGE AND IS SUPPORTED
 BY ACTUAL FIELD DATA

NEWFIELD



Well Name: GMBU G-21-9-16

Summary Rig Activity

Job Category		Job Start Date		Job End Date	
</					

NEWFIELD



Well Name: GMBU G-21-9-16

Summary Rig Activity

Start Time	18:00	End Time	19:30	Comment
Start Time	19:30	End Time	20:00	Comment
Start Time	20:00	End Time	22:00	Comment
Start Time	22:00	End Time	00:00	Comment
Report Start Date	1/13/2014	Report End Date	1/14/2014	24hr Activity Summary Set KP. BO well to pit.
Start Time	00:00	End Time	04:00	Comment
Start Time	04:00	End Time	05:00	Comment
Start Time	05:00	End Time	06:30	Comment
Start Time	06:30	End Time	00:00	Comment
Report Start Date	1/15/2014	Report End Date	1/16/2014	24hr Activity Summary MORUWOR, test BOPS, unload tbg, RIH to tag up on KP.
Start Time	00:00	End Time	12:00	Comment
Start Time	12:00	End Time	12:30	Comment
Start Time	12:30	End Time	14:00	Comment
Start Time	14:00	End Time	16:30	Comment
Start Time	16:30	End Time	19:00	Comment
Start Time	19:00	End Time	19:30	Comment
Start Time	19:30	End Time	00:00	Comment
Report Start Date	1/16/2014	Report End Date	1/17/2014	24hr Activity Summary DO/CO to PBTD. Circ cln, rnd trip, Ind well.
Start Time	00:00	End Time	06:30	Comment
Start Time	06:30	End Time	07:00	Comment

NEWFIELD



Well Name: GMBU G-21-9-16

Summary Rig Activity

Start Time	07:00	End Time	13:00	Comment
Start Time	13:00	End Time	15:00	Comment
Start Time	15:00	End Time	17:00	Comment
Start Time	17:00	End Time	18:30	Comment
Start Time	18:30	End Time	20:00	Comment
Start Time	20:00	End Time	20:30	Comment
Start Time	20:30	End Time	00:00	Comment
Report Start Date	1/17/2014	Report End Date	1/18/2014	24hr Activity Summary
Start Time	00:00	End Time	06:30	Comment
Start Time	06:30	End Time	07:00	Comment
Start Time	07:00	End Time	10:30	Comment
Start Time	10:30	End Time	11:30	Comment
Start Time	11:30	End Time	12:30	Comment
Start Time	12:30	End Time	13:00	Comment
Start Time	13:00	End Time	00:00	Comment

Comment
RU POWER SWIVEL, BREAK CIRCULATION, DRILL OUT KILL PLUG 15 MIN, NO ADDITIONAL PRESSURE, SWIVEL IN 5 JNTS TAGGING 30 FT OF FILL ON FIRST PLUG, CLEAN OUT FILL, TAGGING PLUG @ 4610, START DRILLING PLUG, LOSING CIRCULATION FOR 5 MIN AFTER BREAKING SEAL ON PLUG, PULL UP WAIT FOR RETURNS TO RETURN, FINISH DRILLING PLUG, SWIVEL IN 9 JNTS TAGGING NEXT PLUG @ 4920 JNT 153, (NO FILL), DRILL OUT PLUG 18 MIN, NO ADDITIONAL PRESSURE, HANG SWIVEL BACK PU 14 JNTS TAGGING LAST PLUG @ 5360 JNT 167 (NO FILL), DRILL OUT PLUG 14MIN, NO PRESSURE, HANG SWIVEL BACK PU 3 JNTS TAGGING 747 FT OF FILL @ 5437, CLEAN OUT FILL DWN TO PBTD @ 6194, JNT 193.

Comment
ROLL HOLE 400 BBLs TO MAKE SURE ALL SAND WAS CLEANED OUT.

Comment
LD 17 TOTAL JNTS ON RACKS, POOH W/ 182 TO DERRICK, LD BIT/ SUB.

Comment
RIH W/ NC, 2 JNTS, SN, 1 JNT, TAC, 179 MORE JNTS, ADDING 4' SUB TO STRING SETTING TAC FROM WORKFLOOR W/ 18,000 PULLED INTO IT.

Comment
RD WORKFLOOR, ND BOP, ND BLIND RAM, REMOVE 4 FT SUB FROM STRING, LAND WELL, NU WELLHEAD, 10' KB 179 JNTS, TAC @ 5773.57, 1 JNT, SN @ 5808.67, 2 JNTS, NC, EOT @ 5874.94.

Comment
X-O ROD EQUIPMENT, SPOT IN ROD TRAILER, WINTERIZE EQUIPMENT, SWIFN, SDFN.

Comment

Comment

Comment

Comment
TBG 0 PSI, OPEN UP WELL, PU AND PRIME NEW 2.5 X 1.75 X 24' RHAC PUMP, PU 30 7/8" 8PER RODS, PU 121 3/4" 4PERS, 79 7/8" 4PERS, SPACE OUT W/ 8', 6', 4', AND 2' 7/8" PONIES, PU 30' X 1 1/2" POLISH ROD.

Comment
ROLL UNIT, HANG HORSE HEAD, NU UNIT, STROKE UP TO 800 SPI.

Comment
Rig / Equipment Down.

Comment
CLEAN UP LOCATION, SDFN

Comment

NEWFIELD



Schematic

Well Name: GMBU G-21-9-16

43-013-51569

Surface Legal Location				API/UWI	Well RC	Lease	State/Province	Field Name	County
SWNW 2062 FNL 557 FWL Sec 21 T9S R16E Mer SLB				43013515690000	500335136	UTU64379	Utah	GMBU CTB5	Duchesne
Spud Date	Rig Release Date	On Production Date	Original KB Elevation (ft)	Ground Elevation (ft)	Total Depth All (TVD) (ftKB)	PBDT (All) (ftKB)			
12/3/2013	12/22/2013		6,050	6,040	Original Hole - 6,059.3	Original Hole - 6,194.2			

Most Recent Job

Job Category	Primary Job Type	Secondary Job Type	Job Start Date	Job End Date
Initial Completion	Fracture Treatment	P&P	1/8/2014	1/17/2014

TD: 6,224.0

Slant - Original Hole, 2/28/2014 6:28:57 AM

